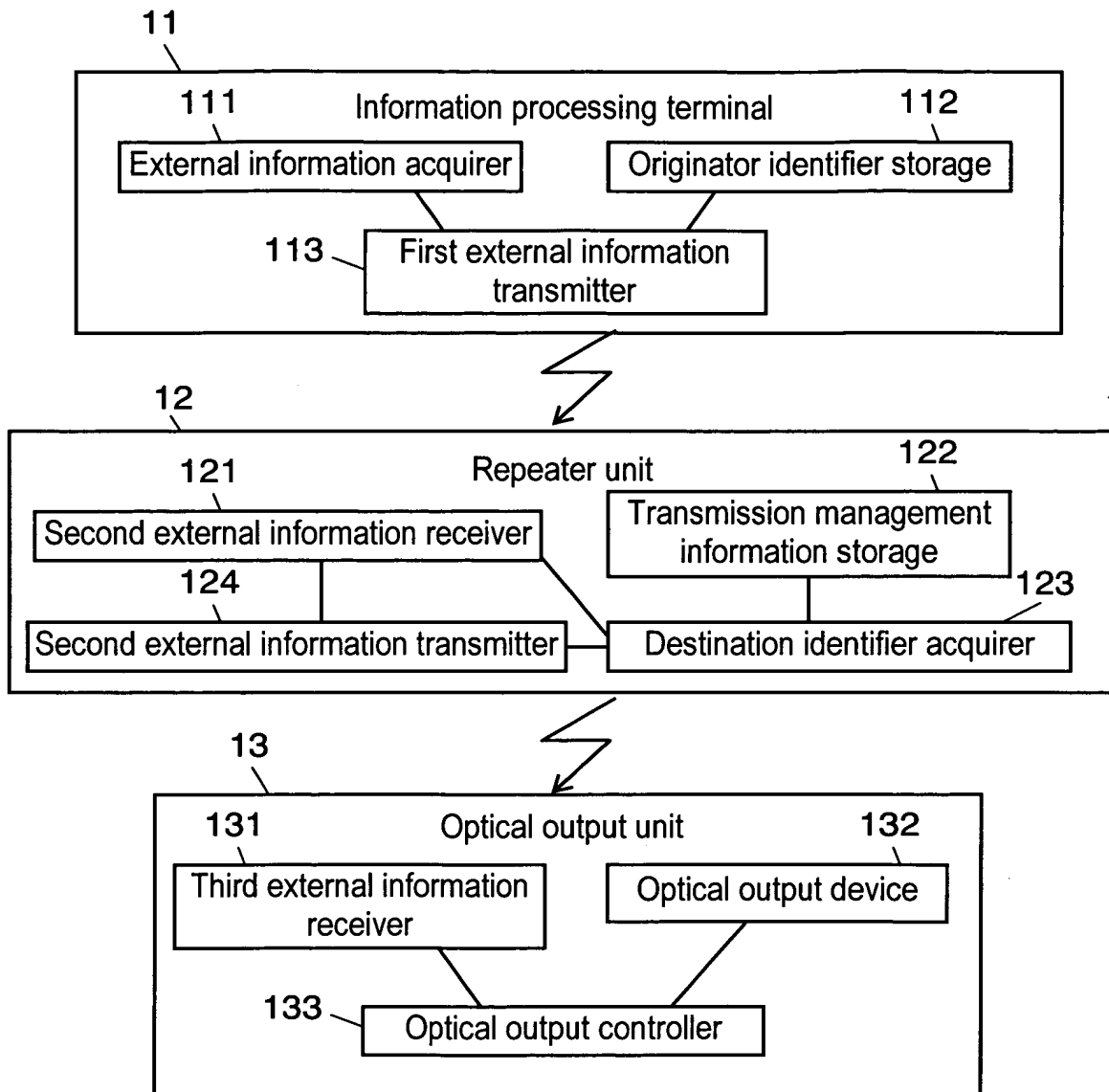


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FIG. 1



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FIG. 2

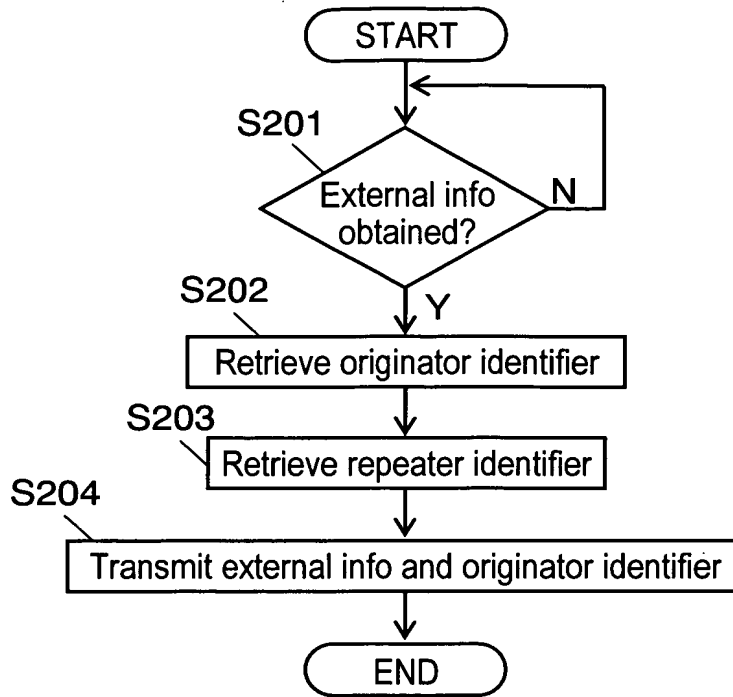
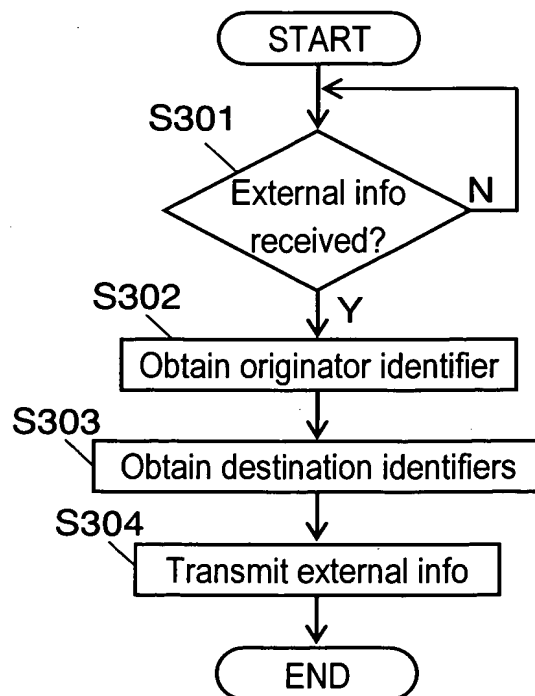


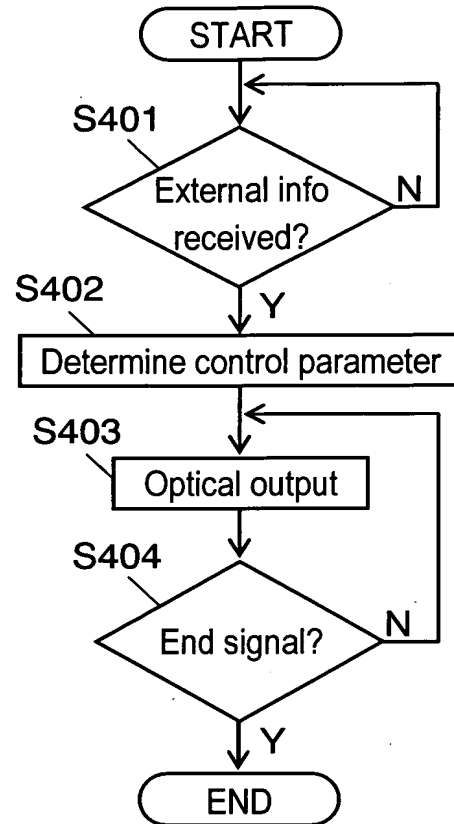
FIG. 3



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FIG. 4



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FIG. 5

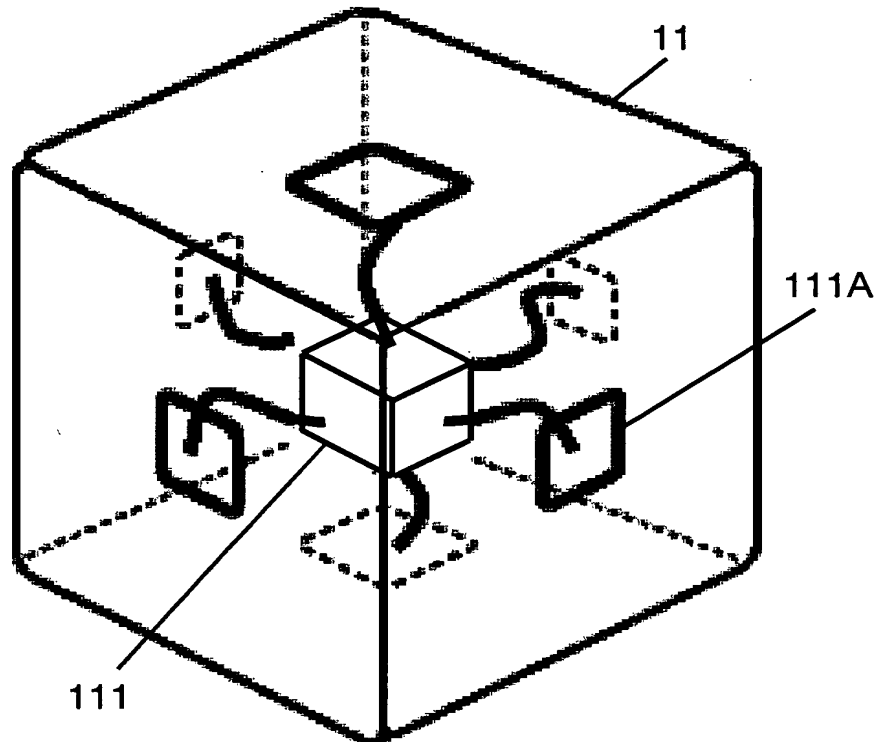
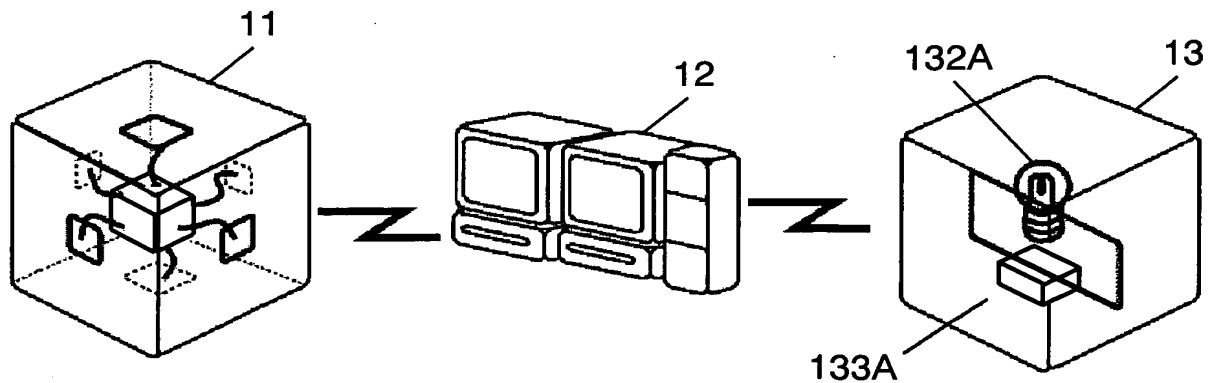


FIG. 6



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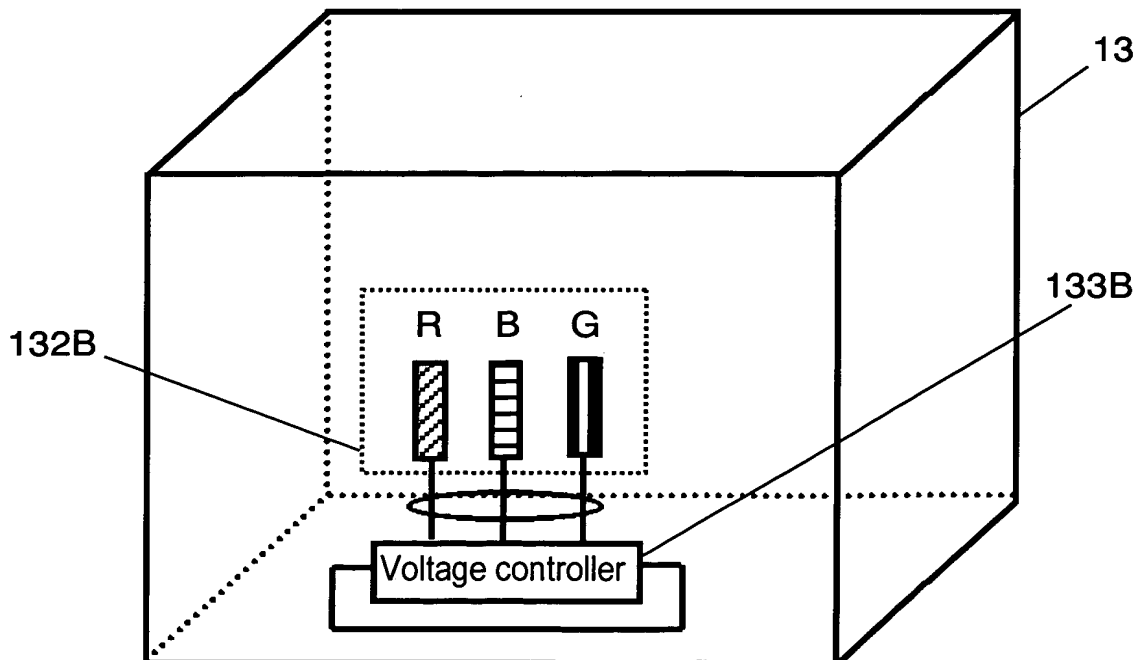
FIG. 7

Obtained External Information	External Information to be Transmitted
(10,20,10,10,10,0)	10

FIG. 8

Received External Information	Voltage
20 or less	Value of received external information
Larger than 20	20

FIG. 9



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FIG. 10

Received External Information	Blinking Mode
0	ON _____ OFF _____
1	ON _____ OFF <u>9</u> <u>1</u> <u>9</u> <u>1</u> <u>9</u> <u>1</u>
2	ON _____ OFF <u>8</u> <u>2</u> <u>8</u> <u>2</u> <u>8</u> <u>2</u>
3	ON _____ OFF <u>7</u> <u>3</u> <u>7</u> <u>3</u> <u>7</u> <u>3</u>
⋮	
9	ON _____ OFF <u>9</u> <u>1</u> <u>9</u> <u>1</u> <u>9</u> <u>1</u>
10 or larger	ON _____ OFF _____

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FIG. 11

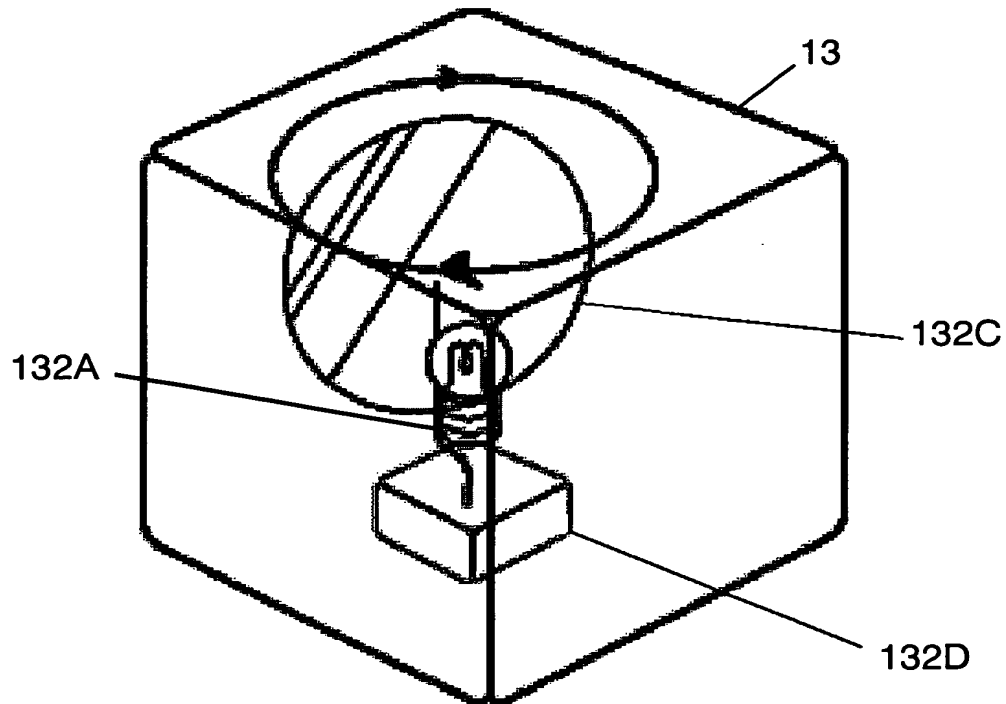
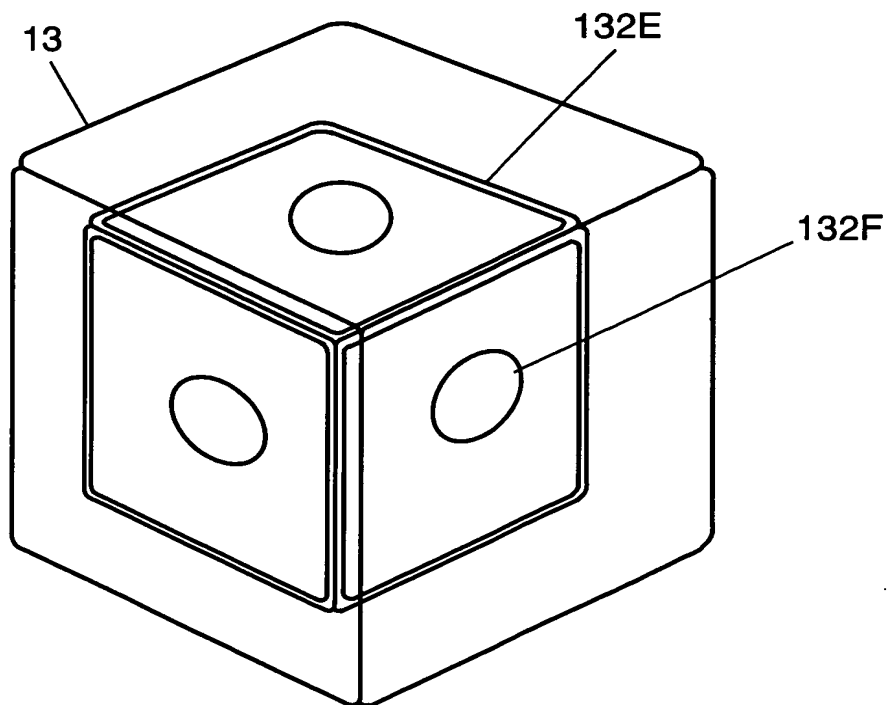
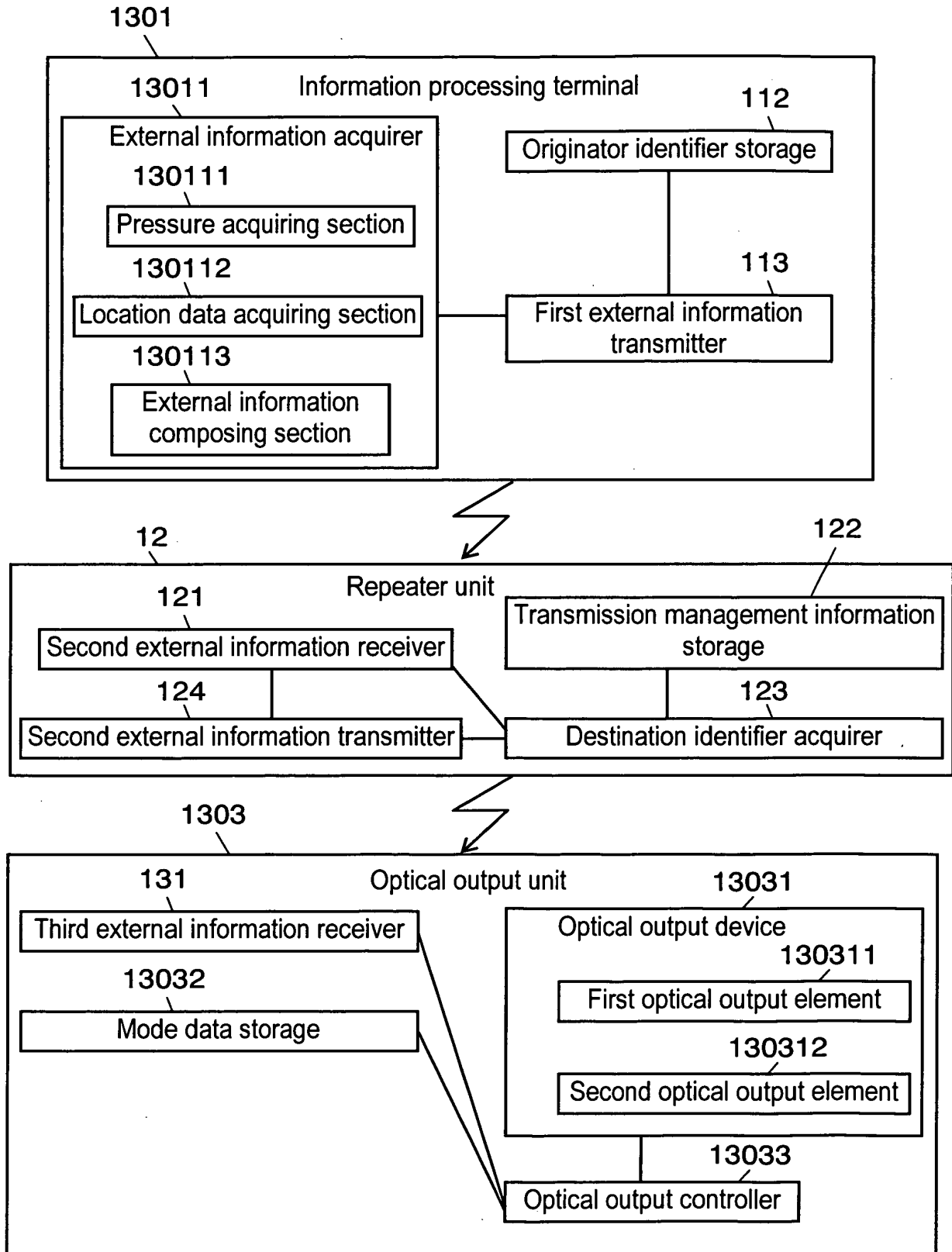


FIG. 12



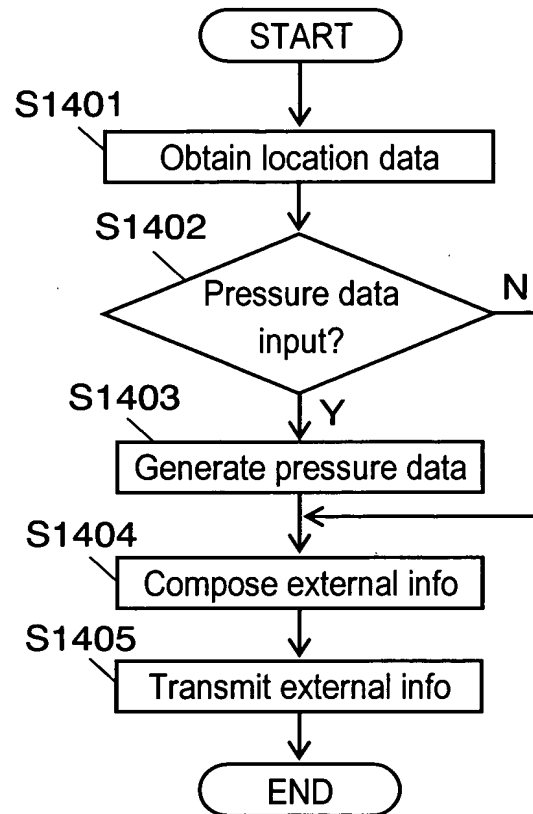
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FIG. 13



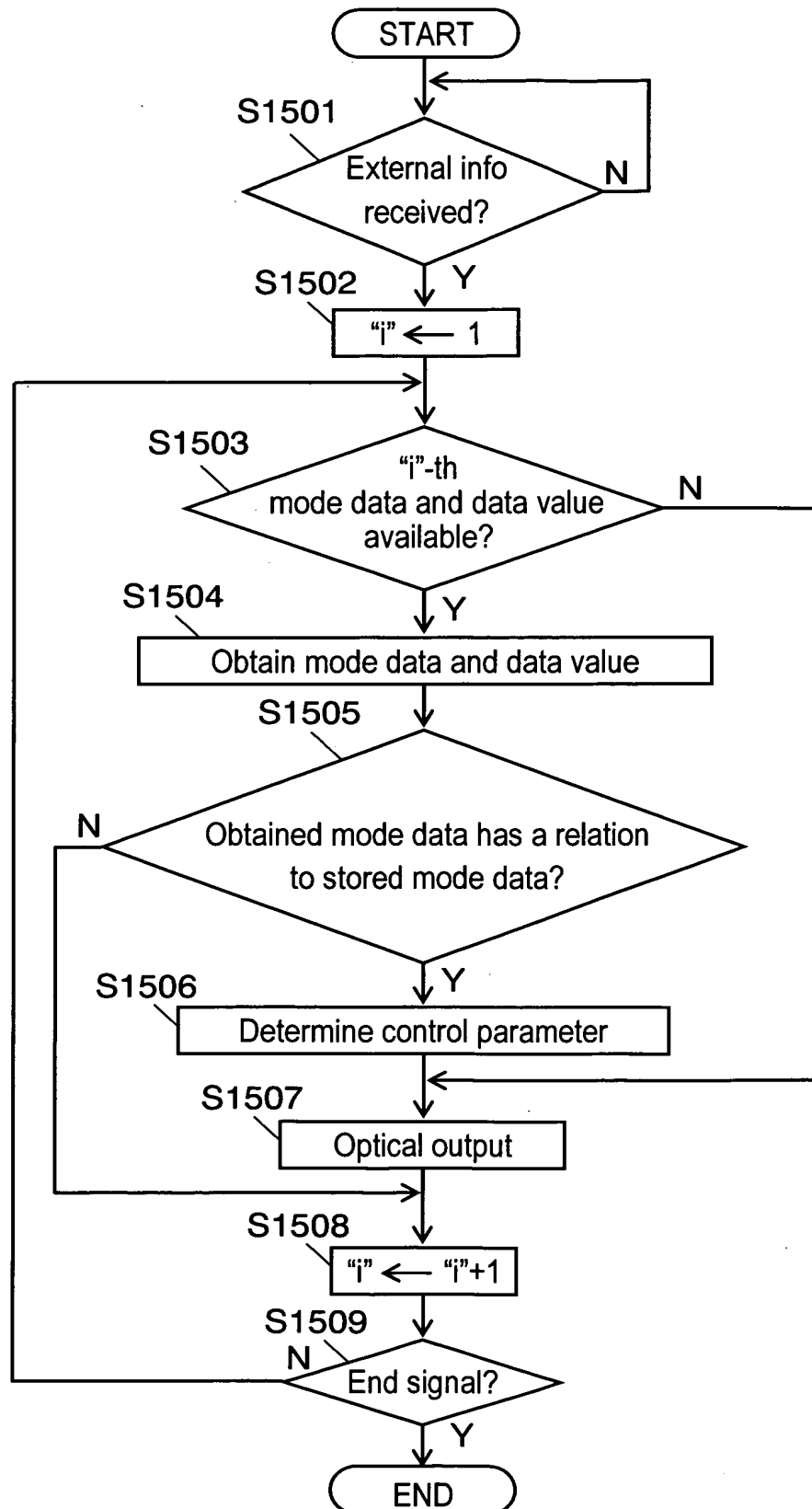
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FIG. 14



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FIG. 15



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FIG. 16

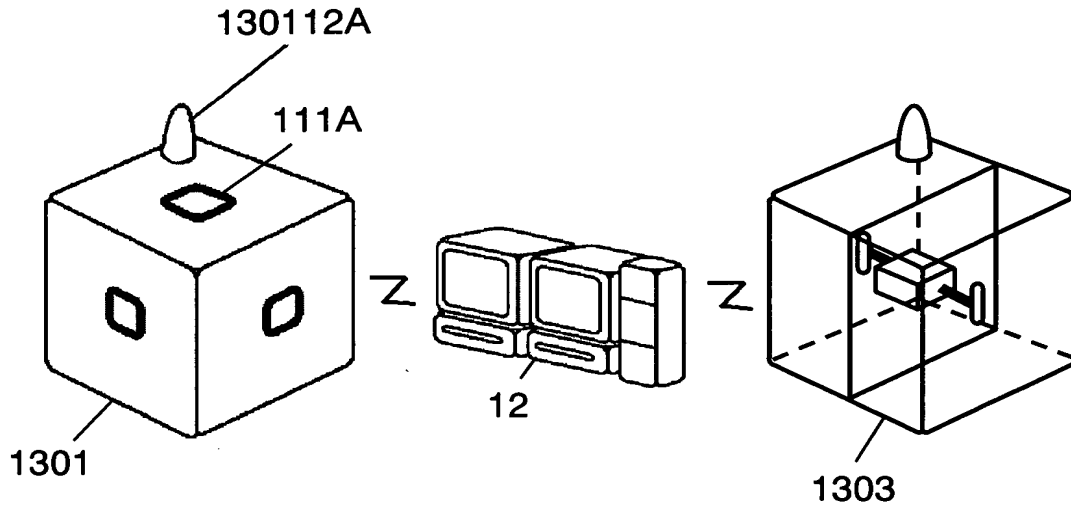


FIG. 17

Data of sensor 1	Data of sensor 2	Data of sensor 6
------------------	------------------	-------	------------------

FIG. 18

0	0	20	5	5	20
---	---	----	---	---	----

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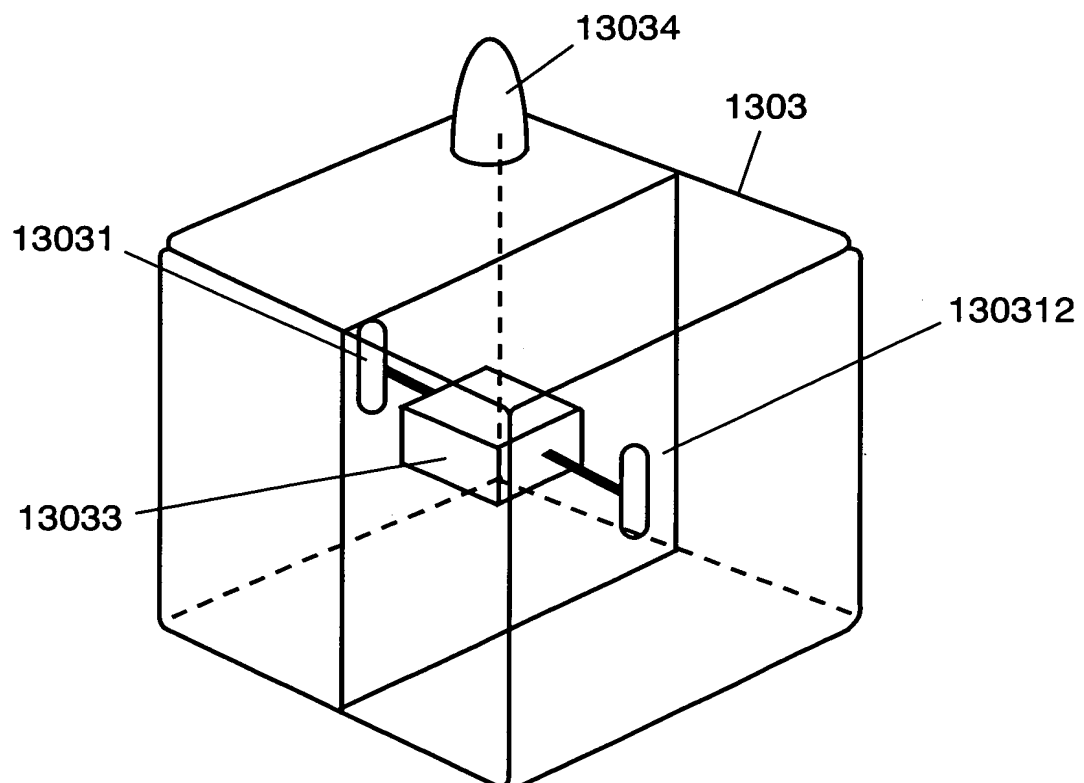
FIG. 19

X (Latitude)	Y (Longitude)	Z (Altitude)
136	110	5

FIG. 20

Mode data	ID	Data value
Location data	2	(136,110,5)
Pressure data	1	12.5

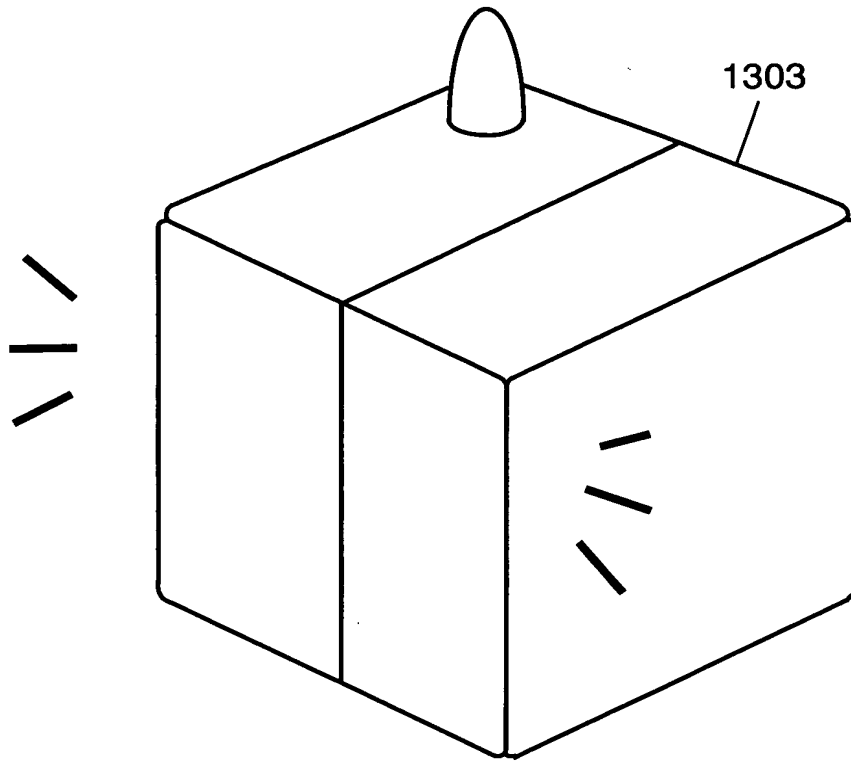
FIG. 21



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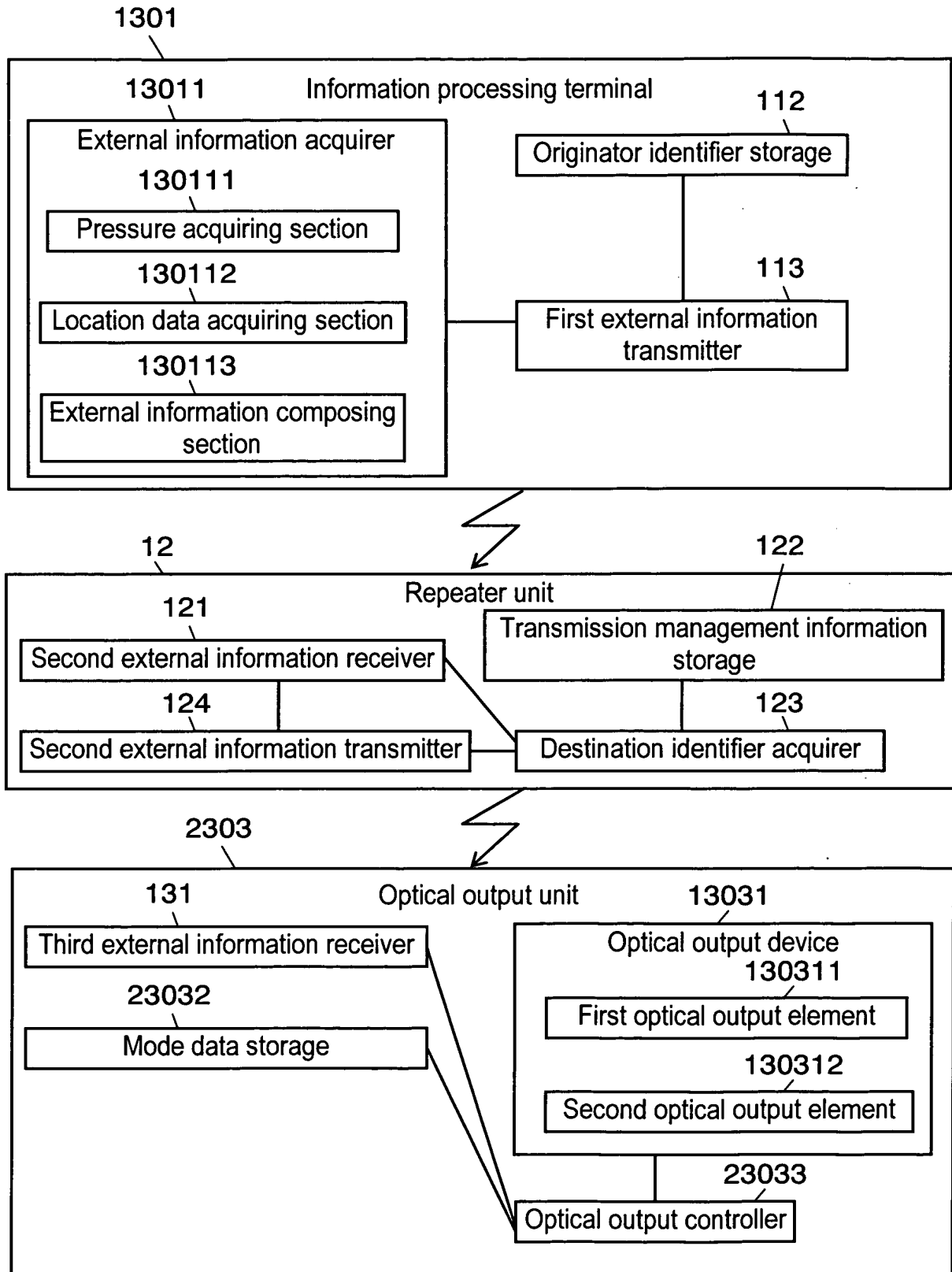
FIG. 22



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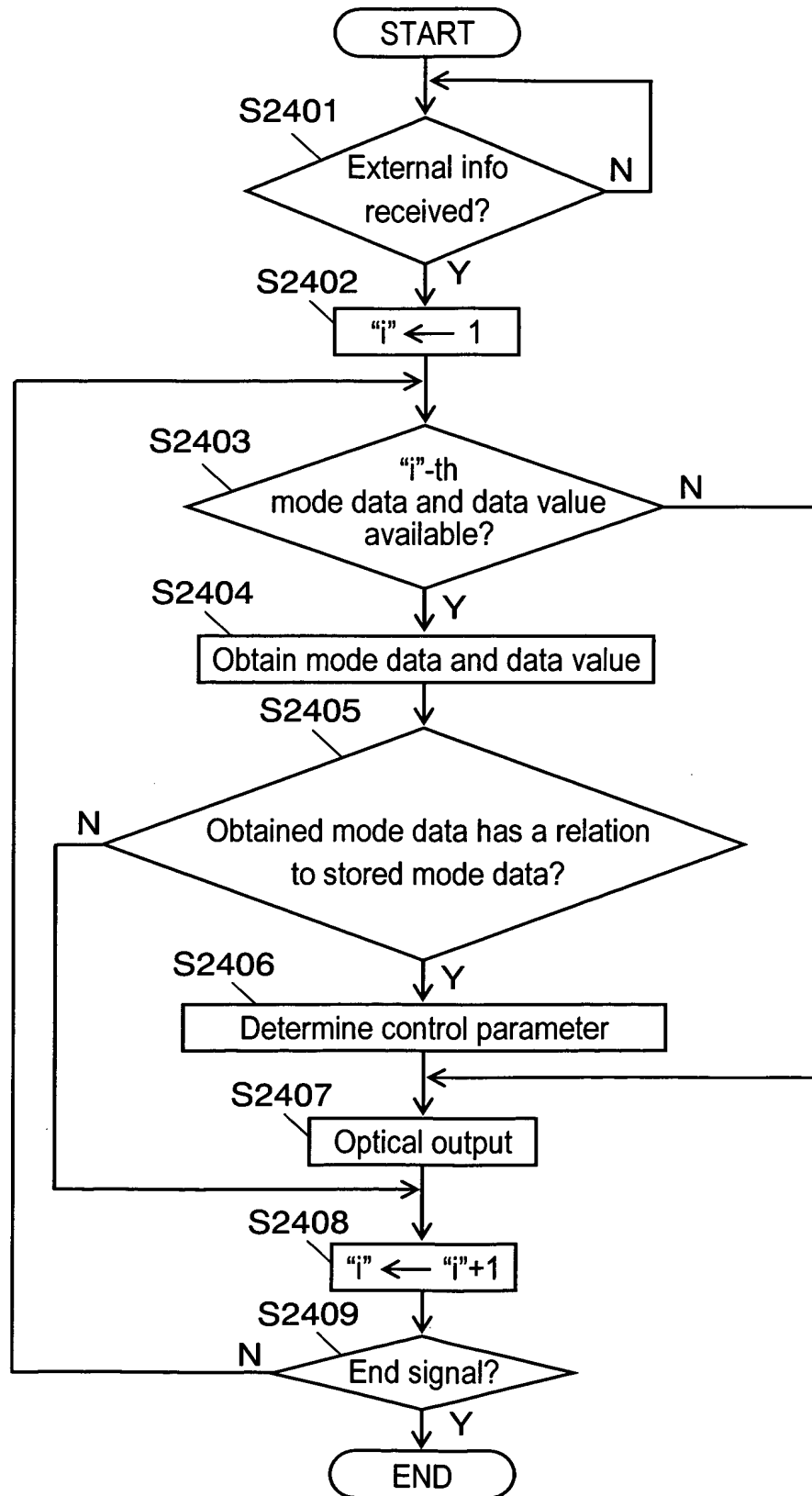
FIG. 23



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FIG. 24



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FIG. 25

Optical output element identifier	Mode data	Optical output method identifier
First optical output element	Pressure data	Blinking
Second optical output element	Location data	Turning

FIG. 26

Optical output method identifier
Intensity of light
Color of light
Blinking of light
Turning of light
Dimension of light

FIG. 27

Mode data and optical output method identifier setting panel		
Select desired mode data and/or optical output method identifier		
Optical output element	Mode data	Optical output method identifier
1st optical output element	Pressure data	Blinking of light
2nd optical output element	Location data	

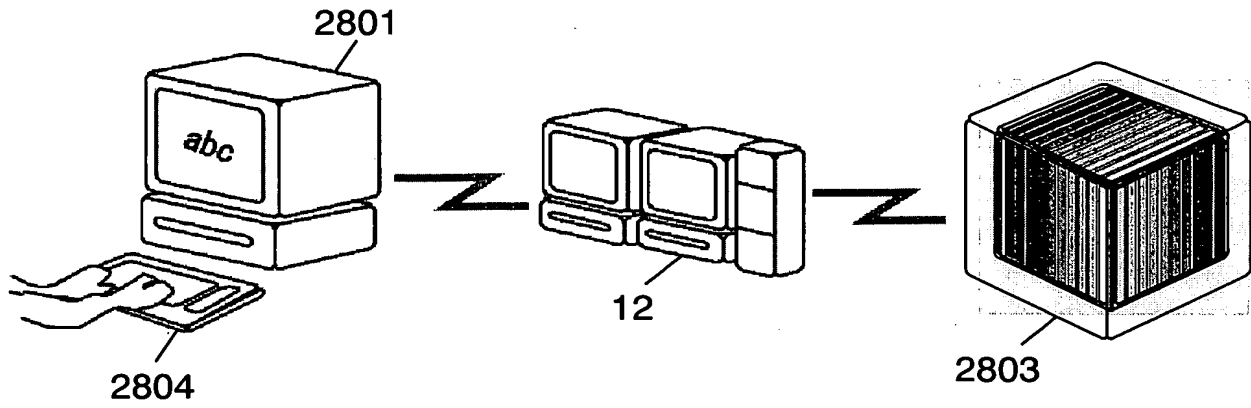
Menu
Intensity of light
Color of light
Blinking of light
Turning of light
Dimension of light

Enter

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FIG. 28

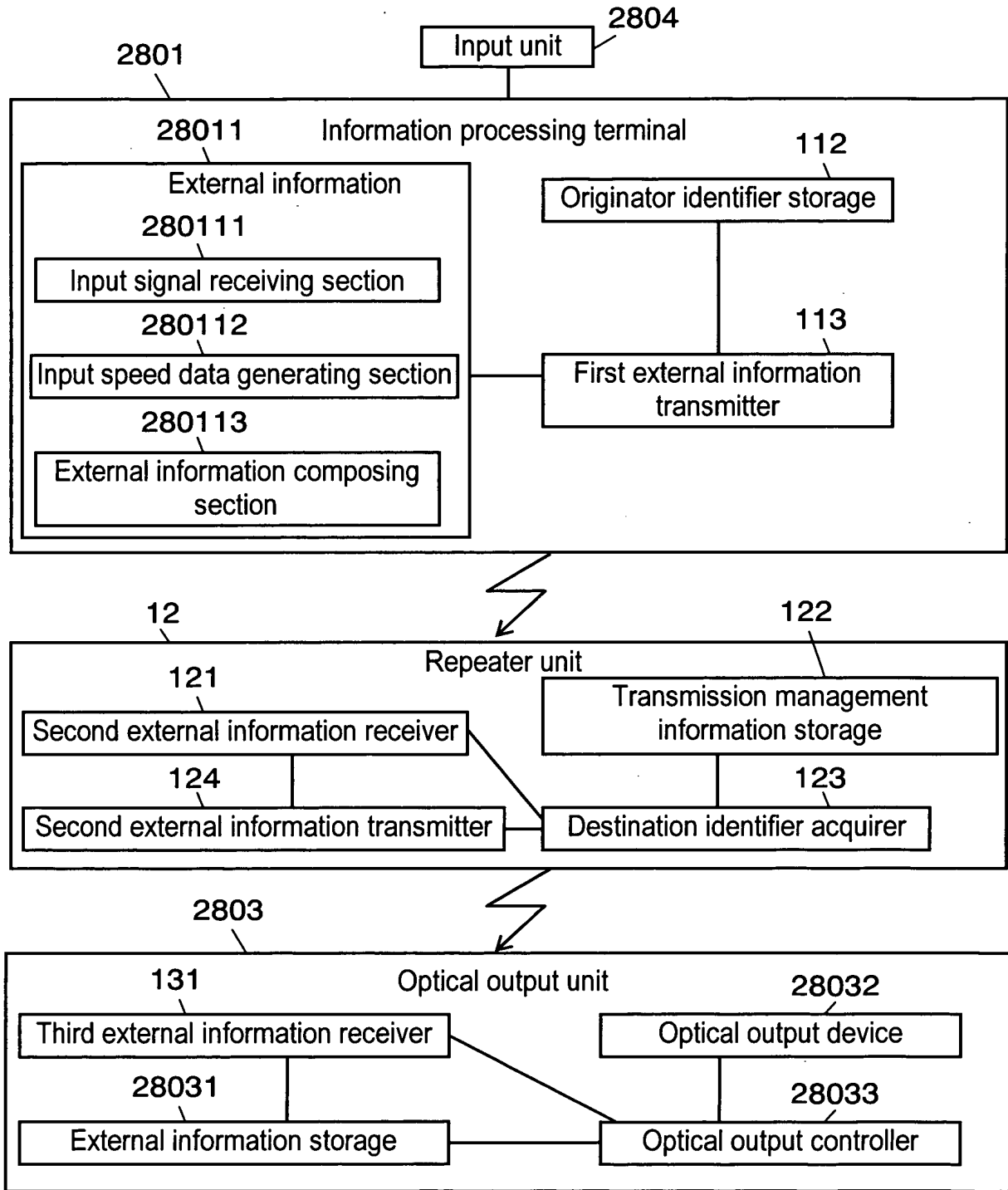


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10,506,847

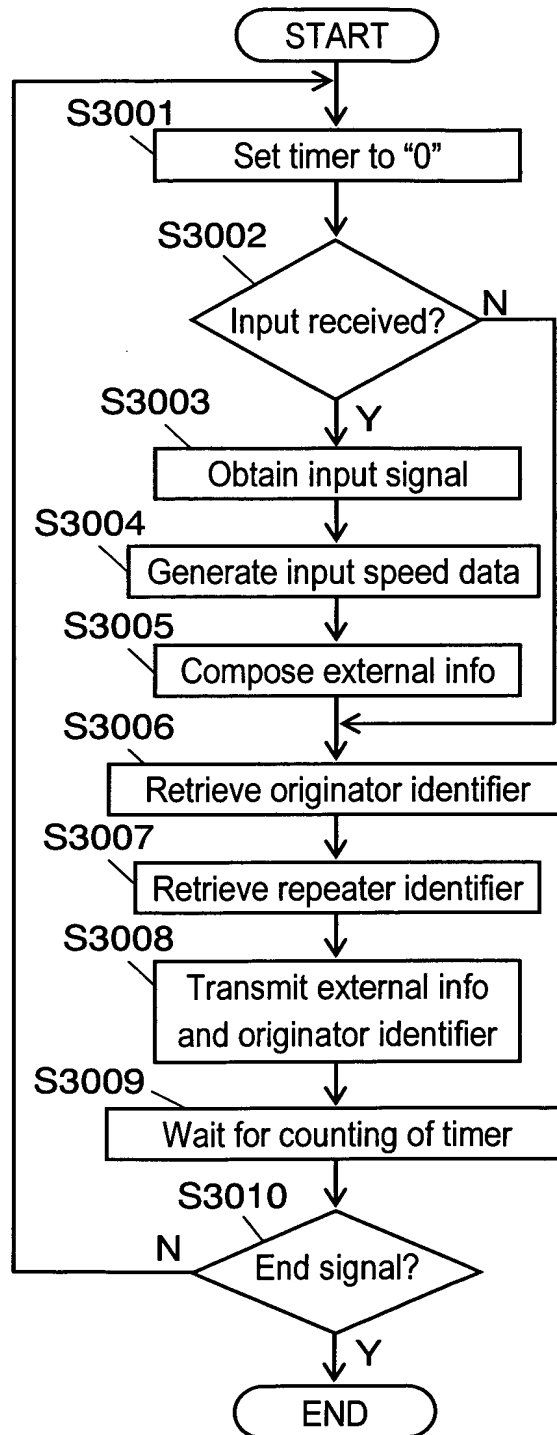
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FIG. 29



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FIG. 30



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FIG. 31

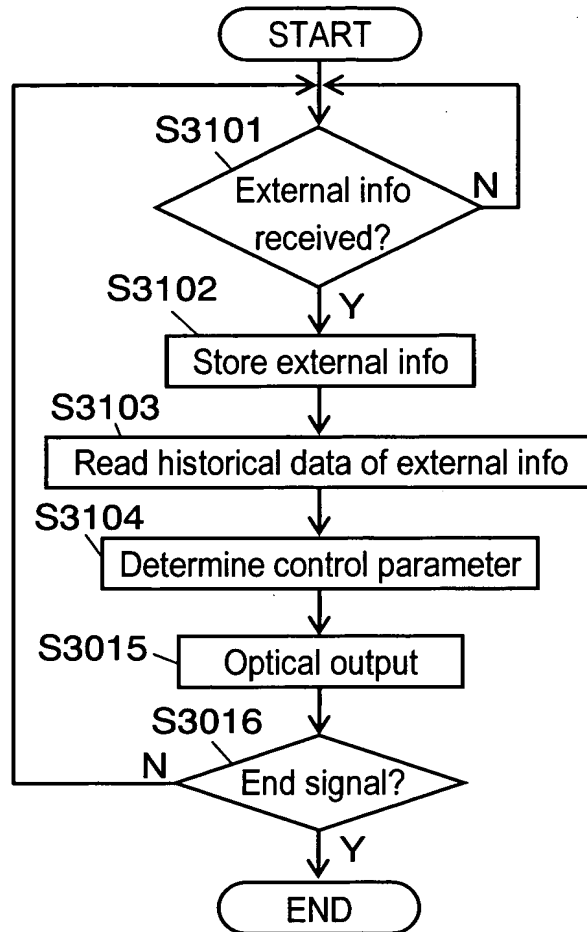


FIG. 32

Time	External information
9:01	3
9:02	10
9:03	61
9:04	74
⋮	⋮
10:00	123

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FIG. 33

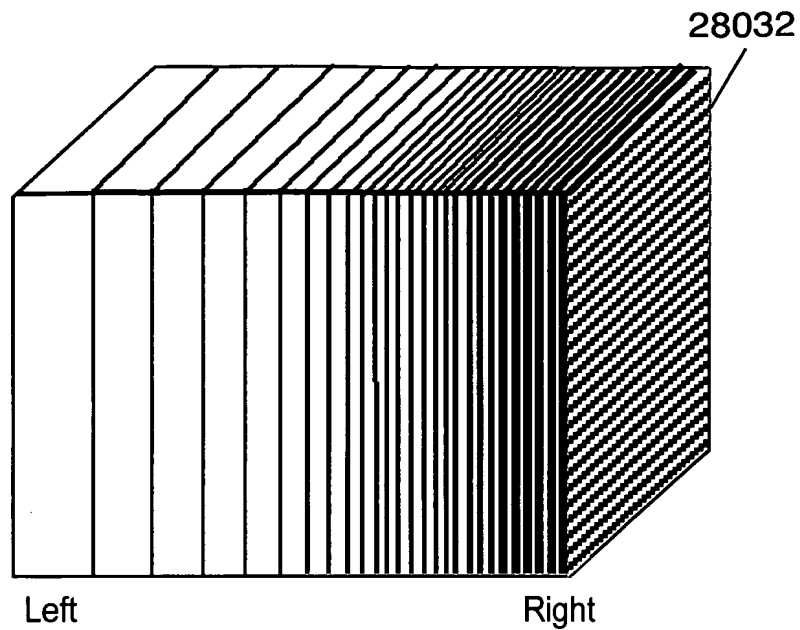
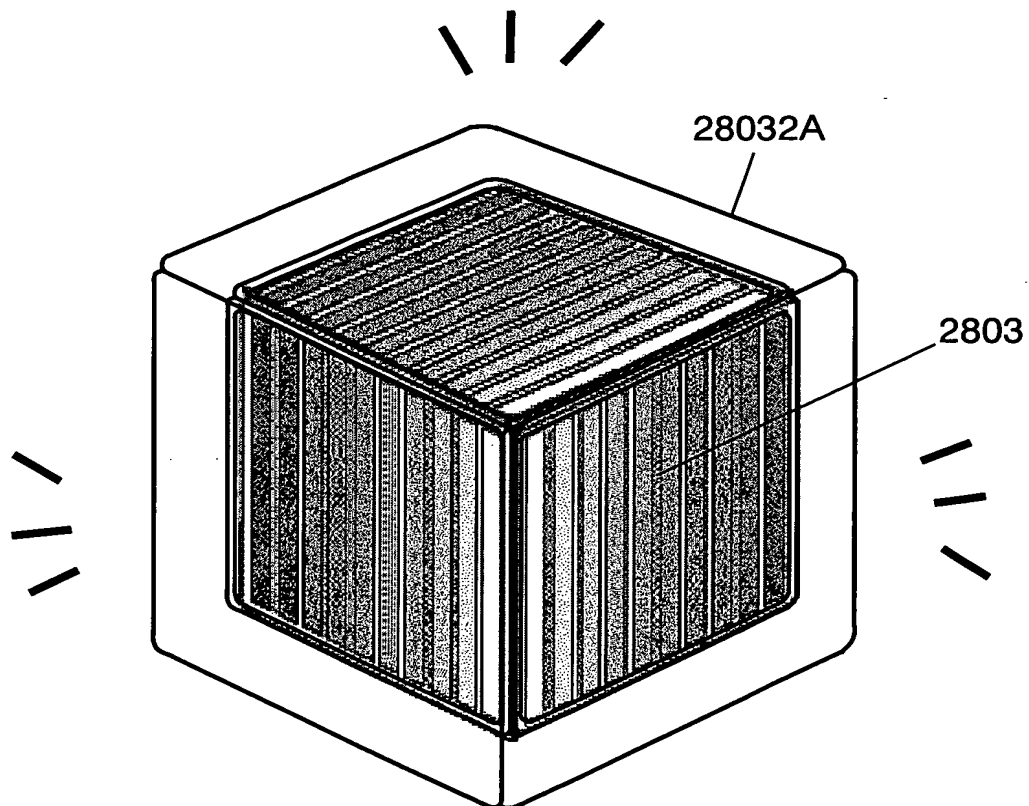


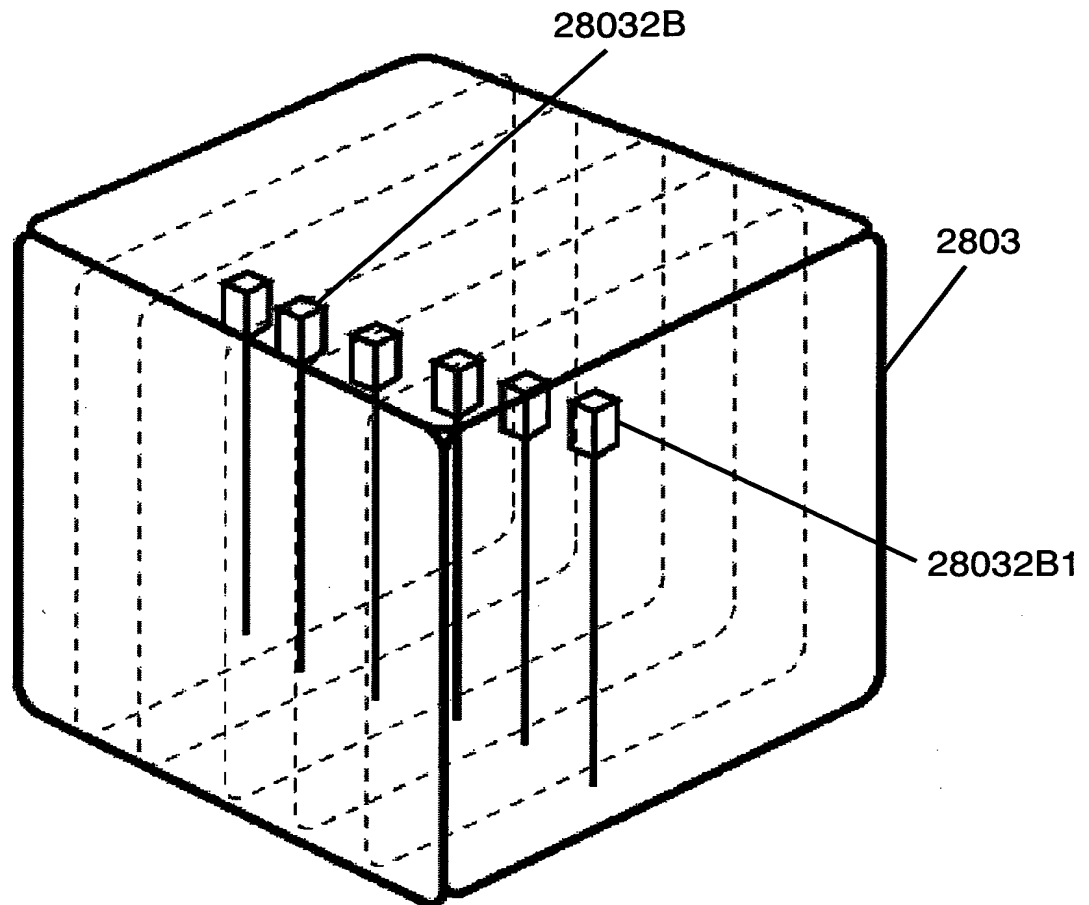
FIG. 34



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FIG. 35

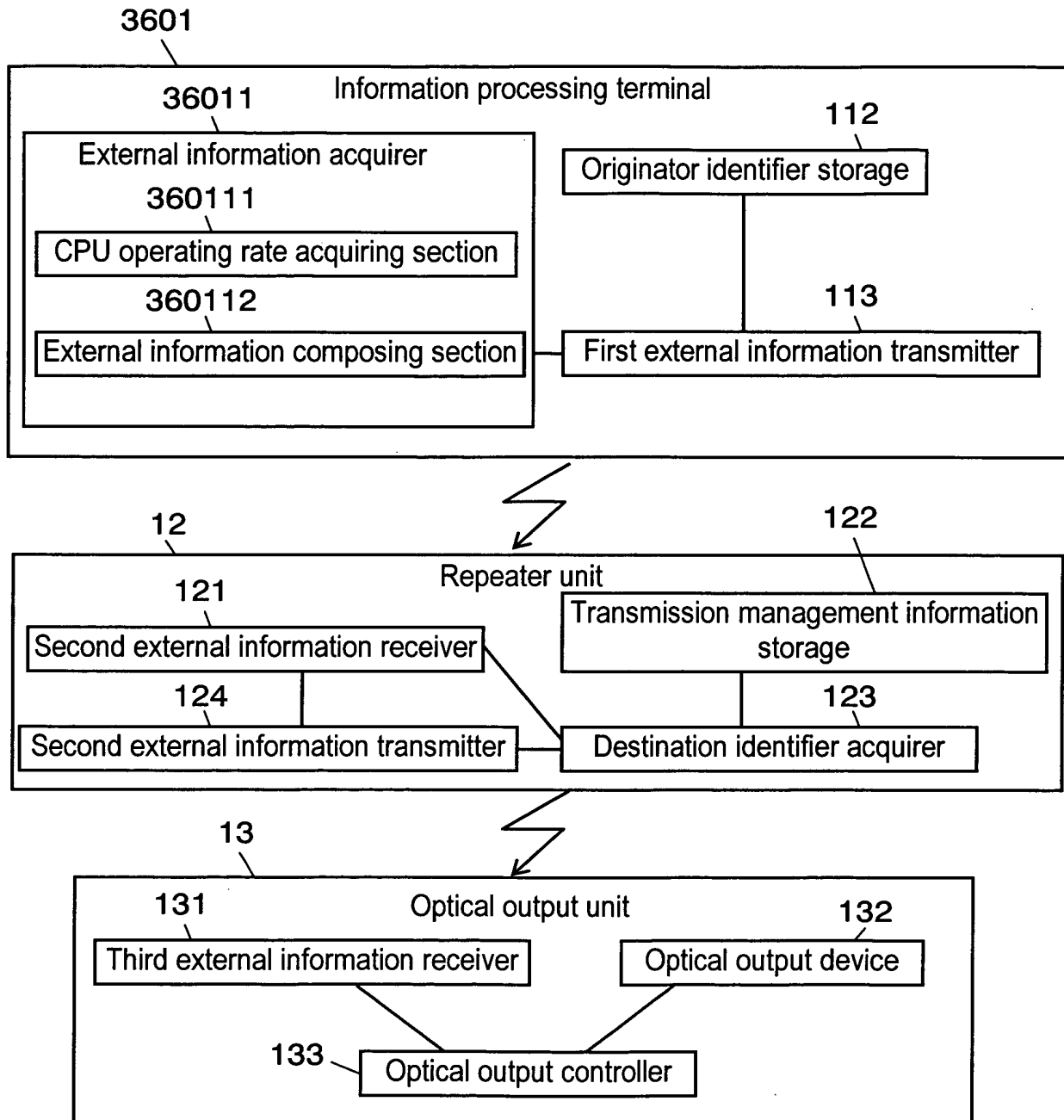


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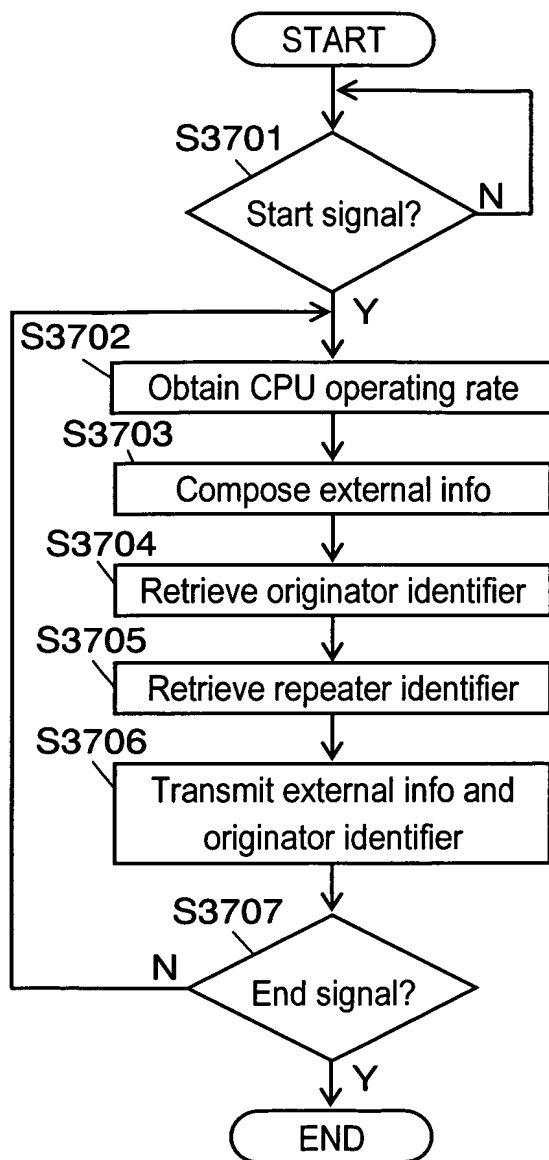
FIG. 36



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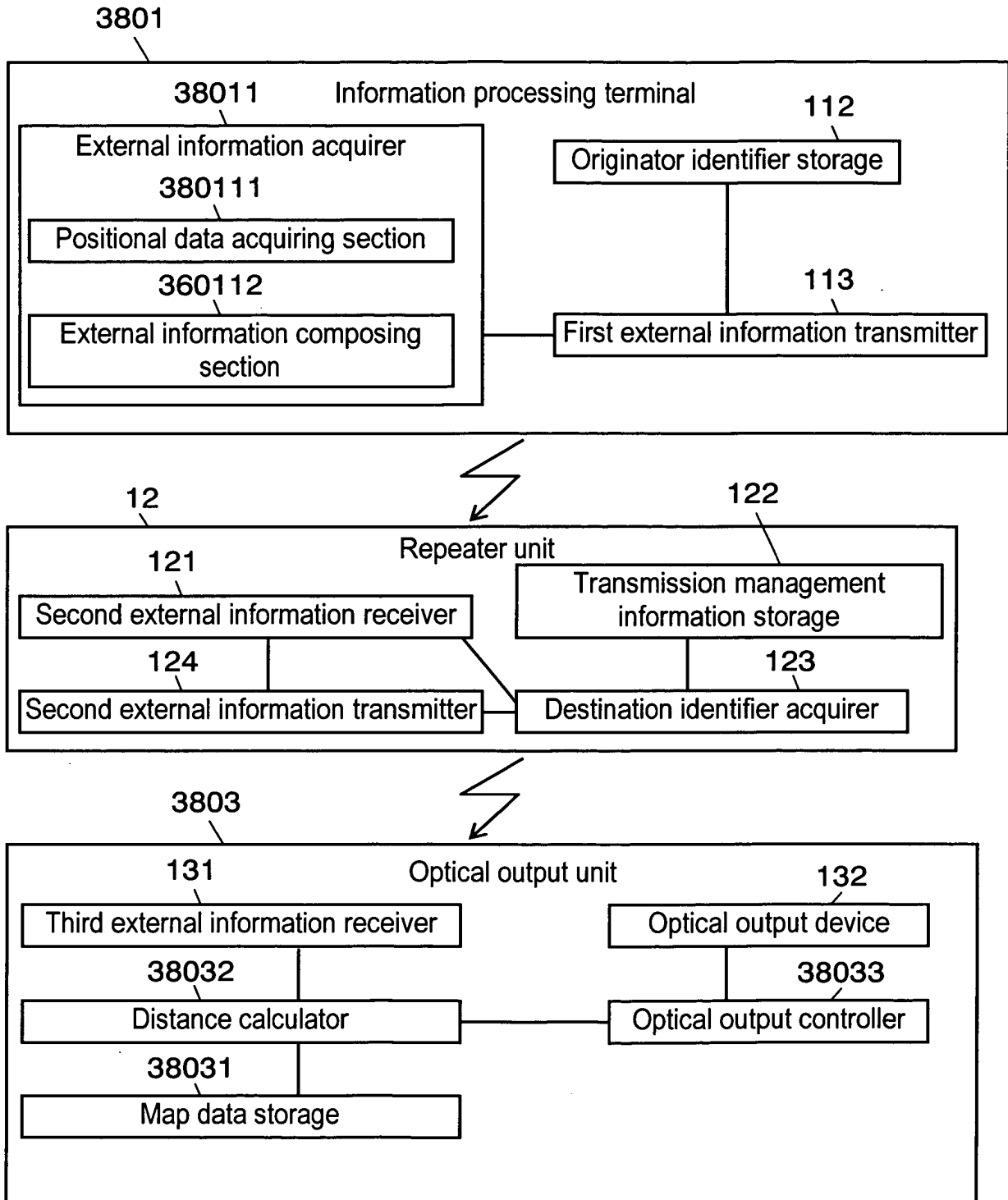
FIG. 37



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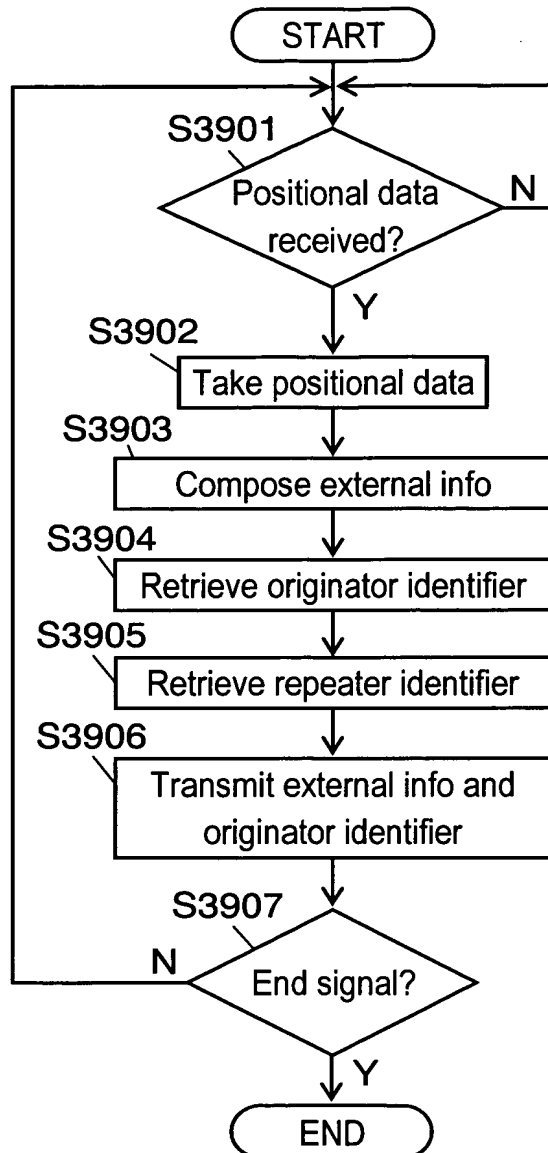
FIG. 38



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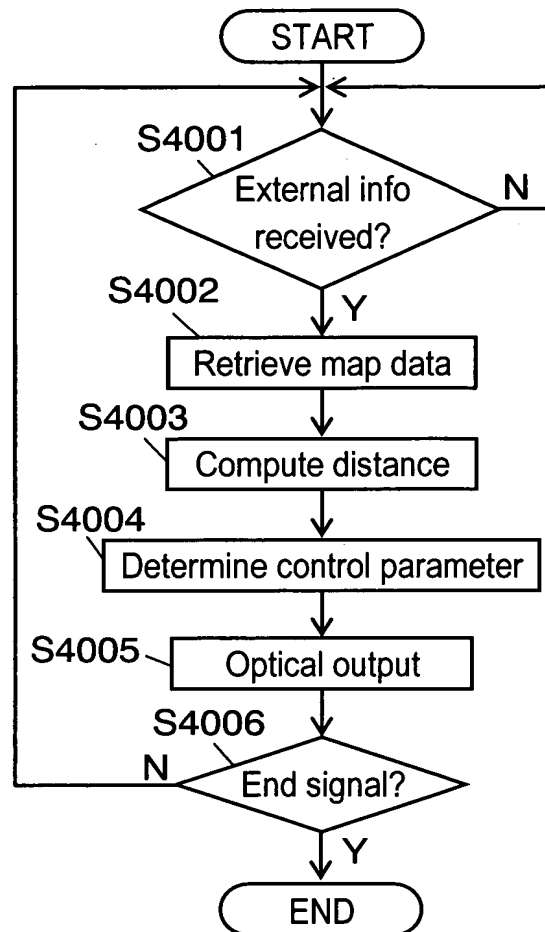
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FIG. 39



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FIG. 40



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FIG. 41

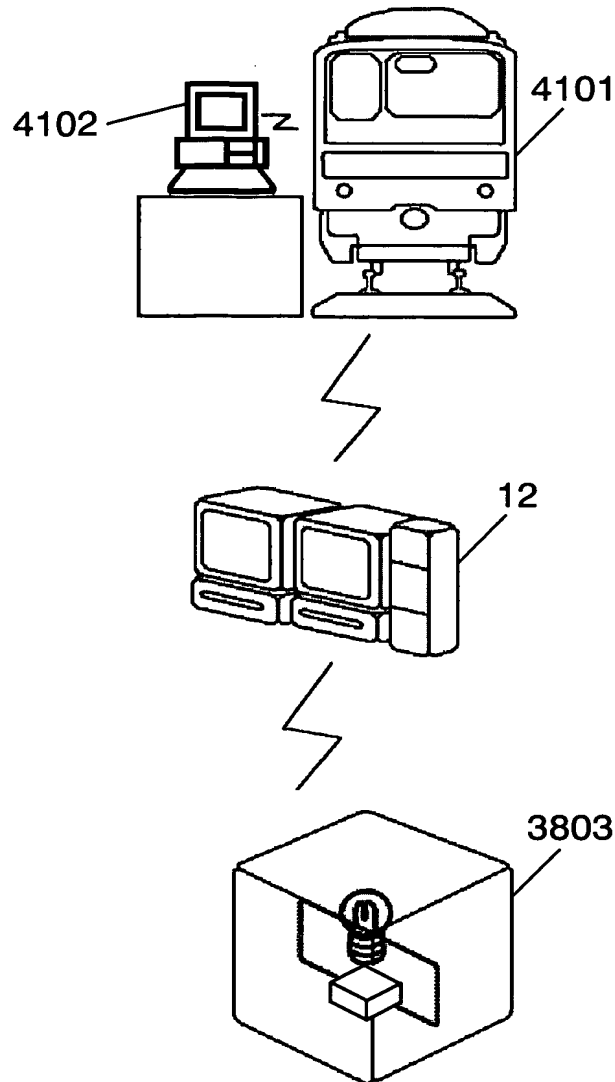


FIG. 42

"ABC Railway Company - Distance Management Table for X-Line"

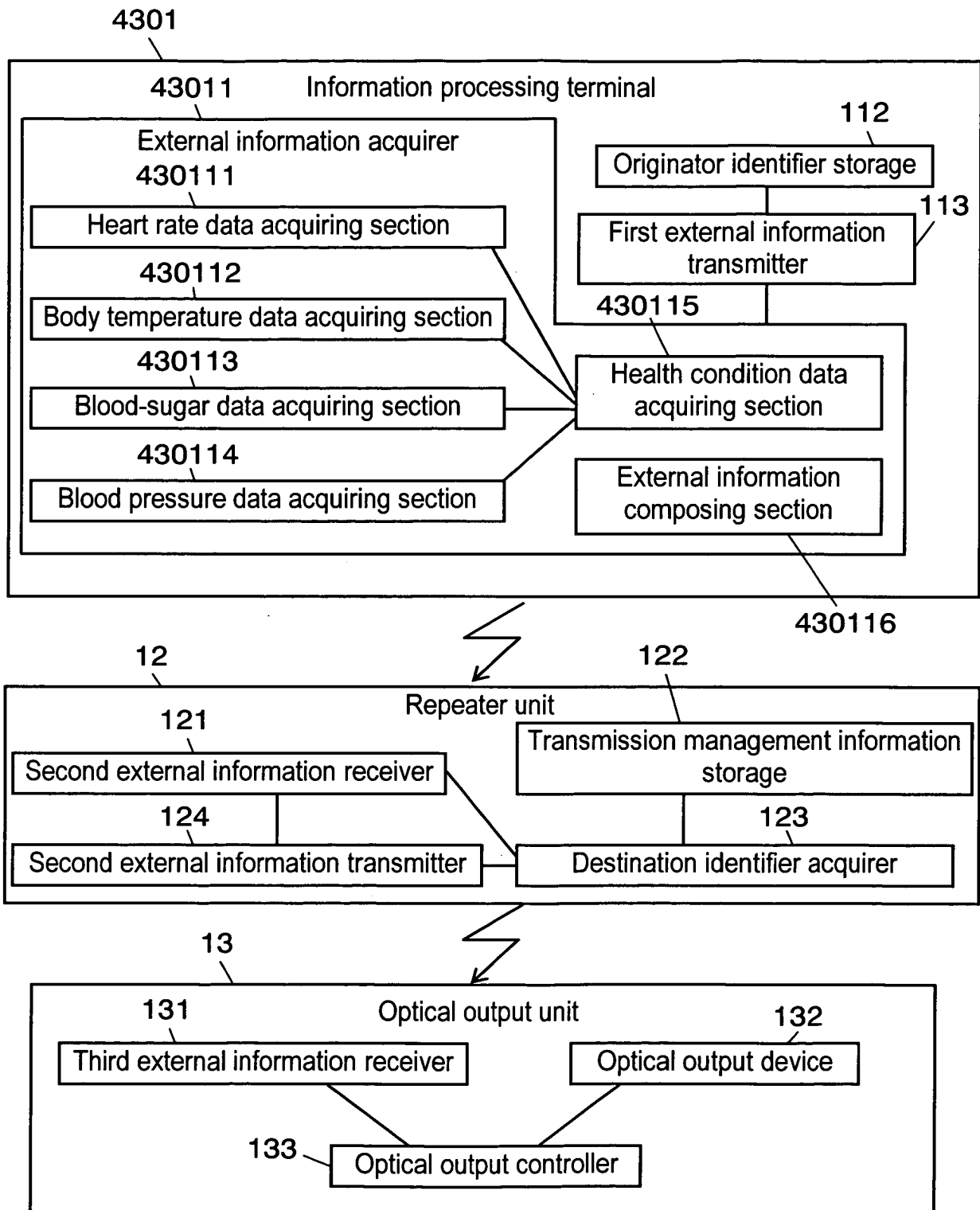
Station Identifier	A Station	B Station	C Station	D Station	F Station
Distance	0	5,2Km	8,4Km	10,3Km	15,0Km

nearest station: D station

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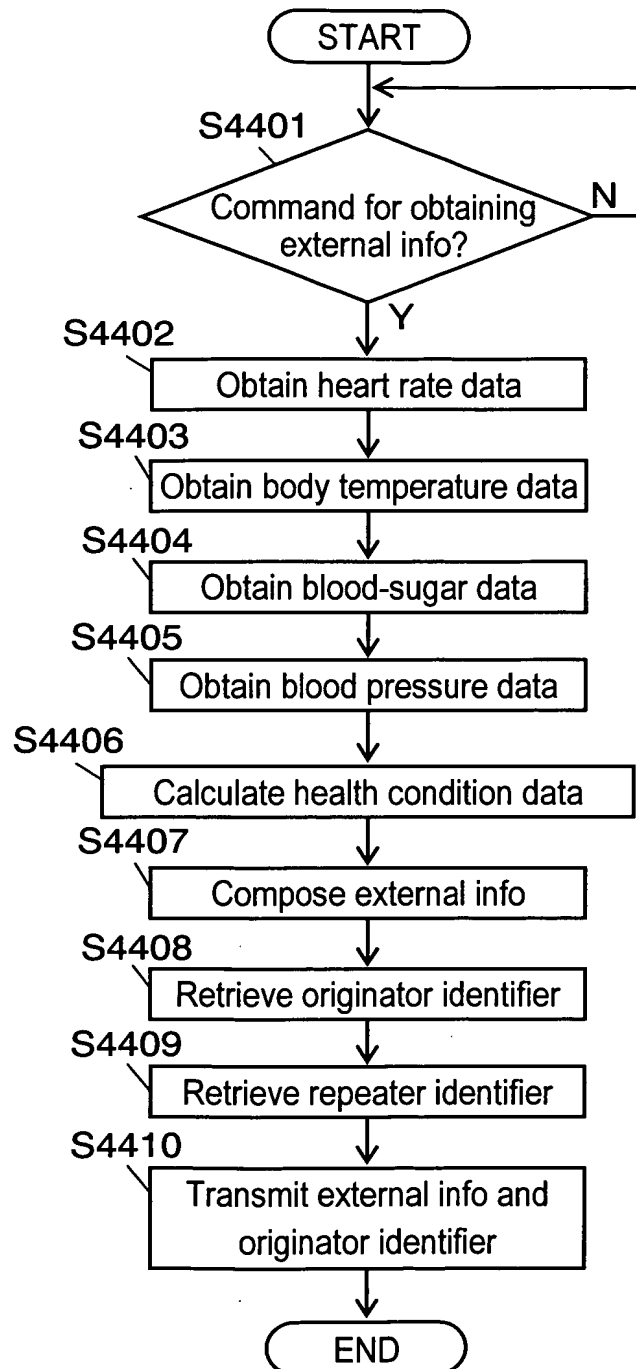
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FIG. 43



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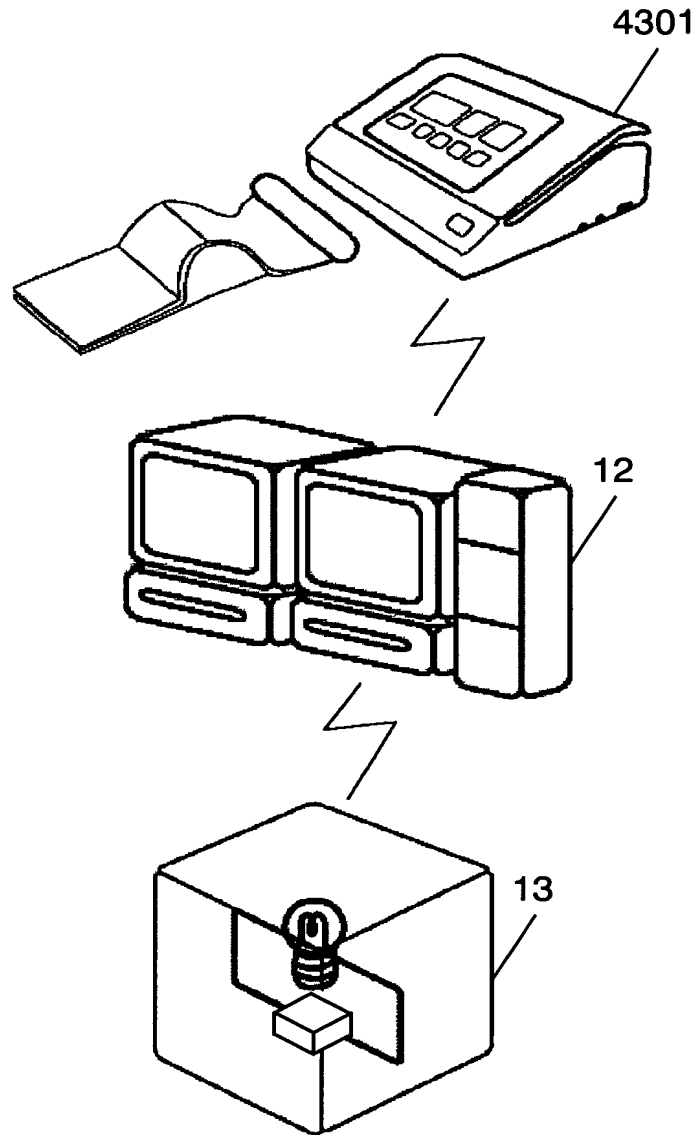
FIG. 44



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FIG. 45



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FIG. 46

Score	Heart Rate	Body Temp	Blood Sugar Level	Blood Pressure
0	91 or higher	40.1 or higher	151 or higher	Systolic pressure: (180 or higher)(70 or lower) Diastolic pressure: (130 to 140)(30 to 40)
5	81 to 90	39.1 to 40.0	141 to 150	Systolic pressure: (170 to 180)(70 to 80) Diastolic pressure: (120 to 130)(40 to 50)
10	71 to 80	38.1 to 39.0	131 to 140	Systolic pressure: (160 to 170)(80 to 90) Diastolic pressure: (110 to 120)(40 to 50)
15	61 to 70	35.9 or lower 37.3 to 38.0	121 to 130	Systolic pressure: (150 to 160)(90 to 100) Diastolic pressure: (100 to 110)(50 to 60)
20	51 to 60	36.0 to 36.2 36.9 to 37.2	11 to 120	Systolic pressure: (140 to 150)(100 to 110) Diastolic pressure: (90 to 100)(60 to 70)
25	50 or lower	36.3 to 36.8	110 or lower	Systolic pressure: (110 to 140) Diastolic pressure: (70 to 90)

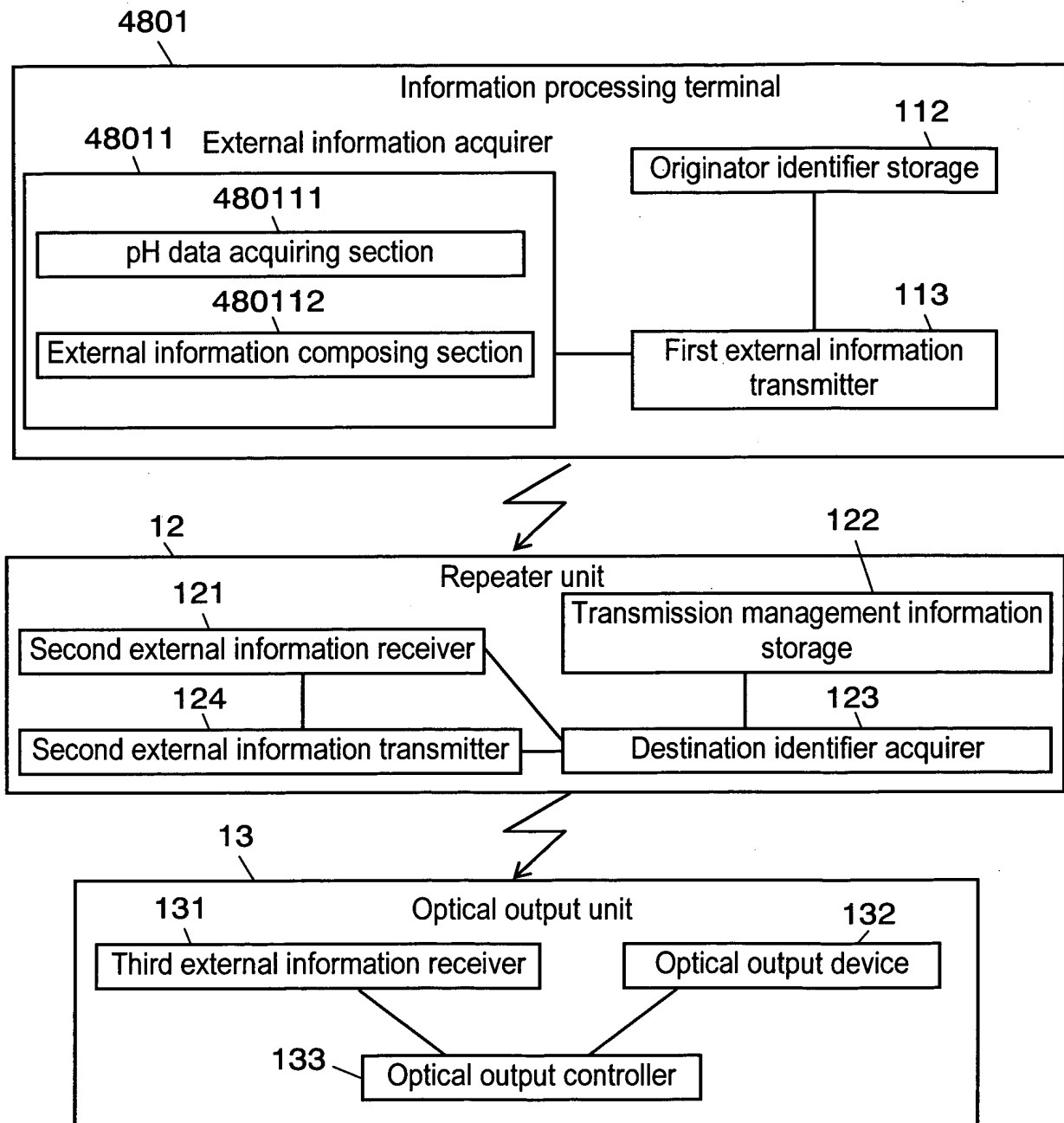
FIG. 47

< heart rate data>	78
< body temperature data>	36.5
< blood-sugar data>	80
< blood pressure data>	133 over 70
< health condition data>	85

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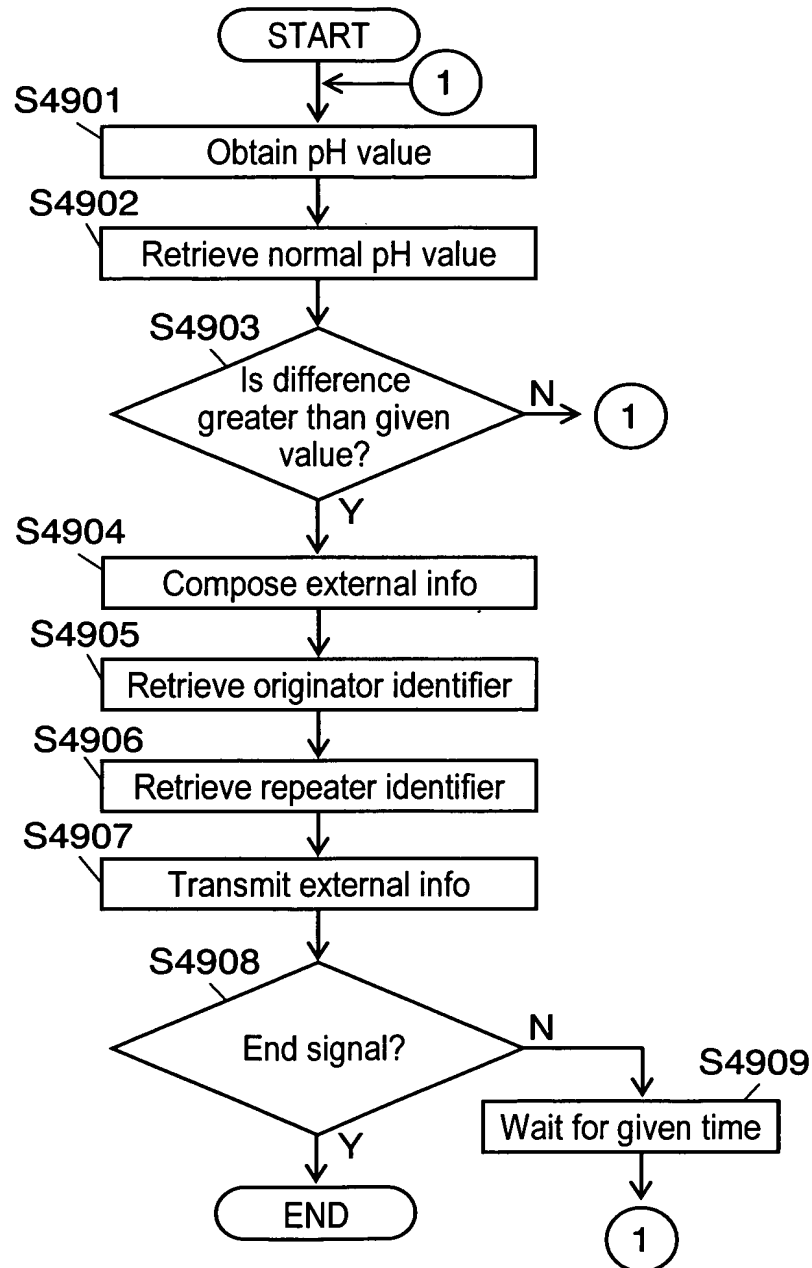
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FIG. 48



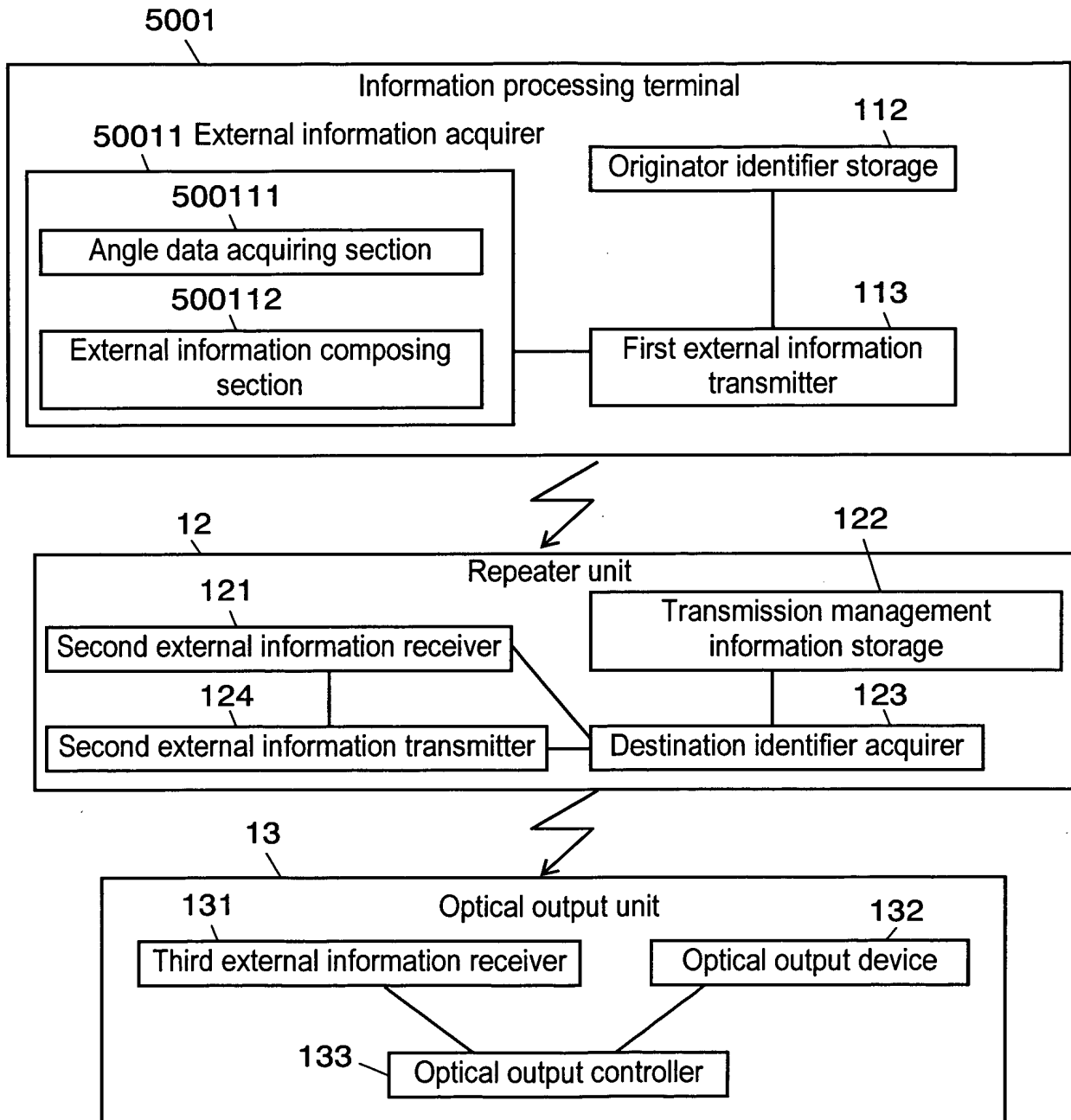
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FIG. 49



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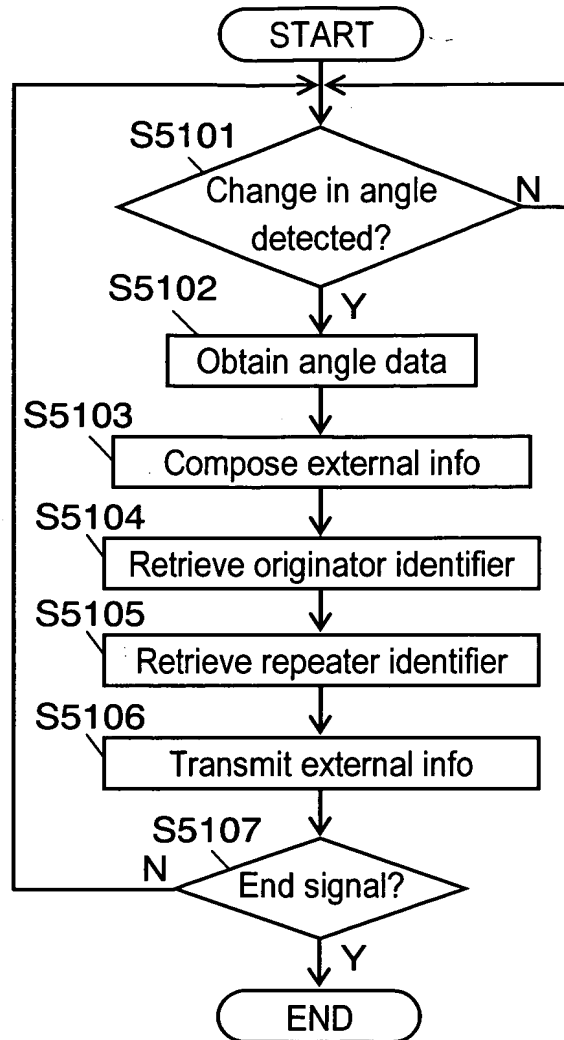
FIG. 50



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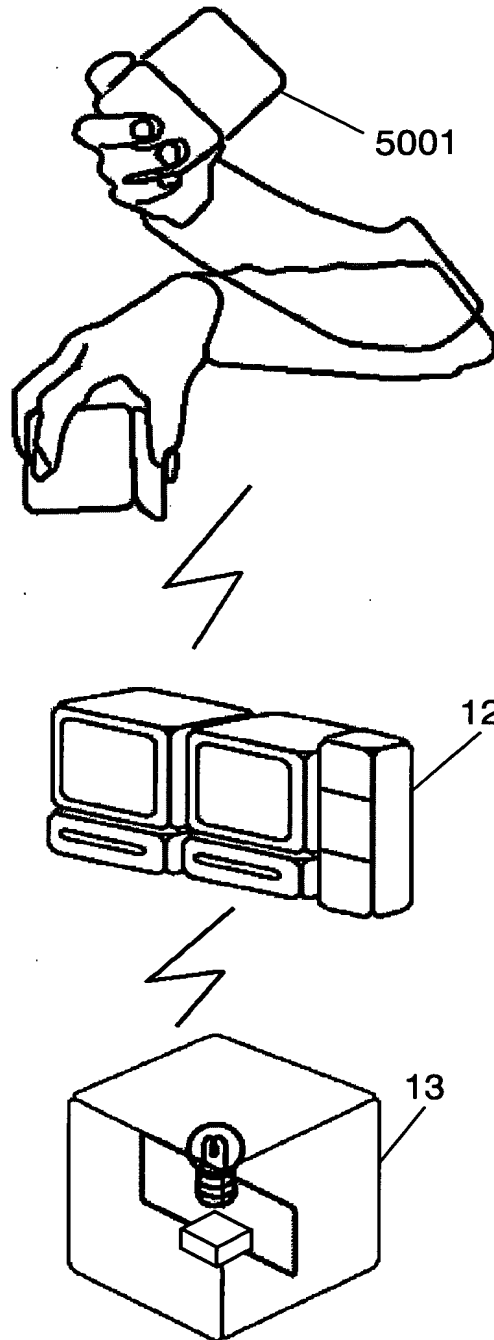
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FIG. 51



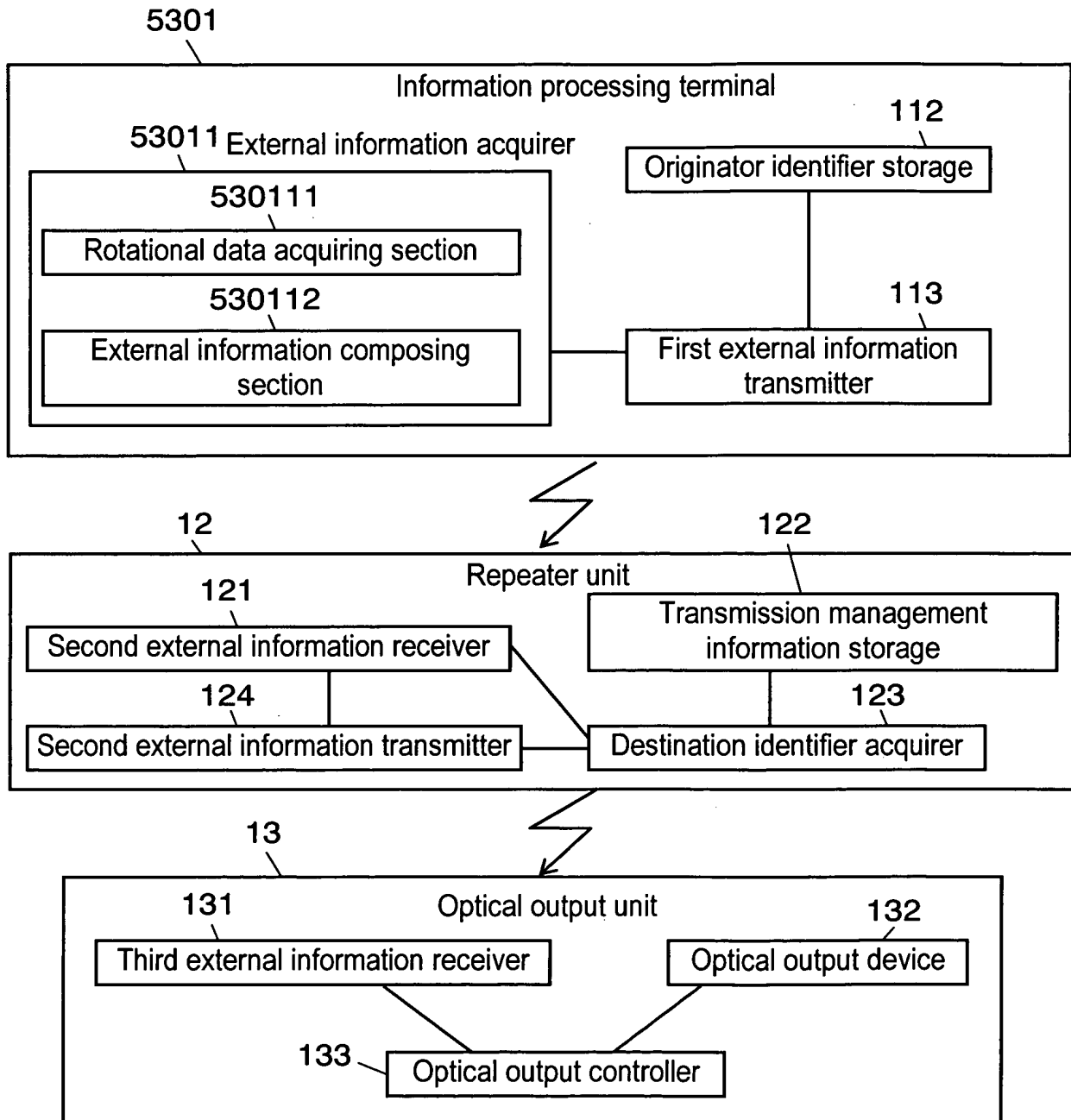
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FIG. 52



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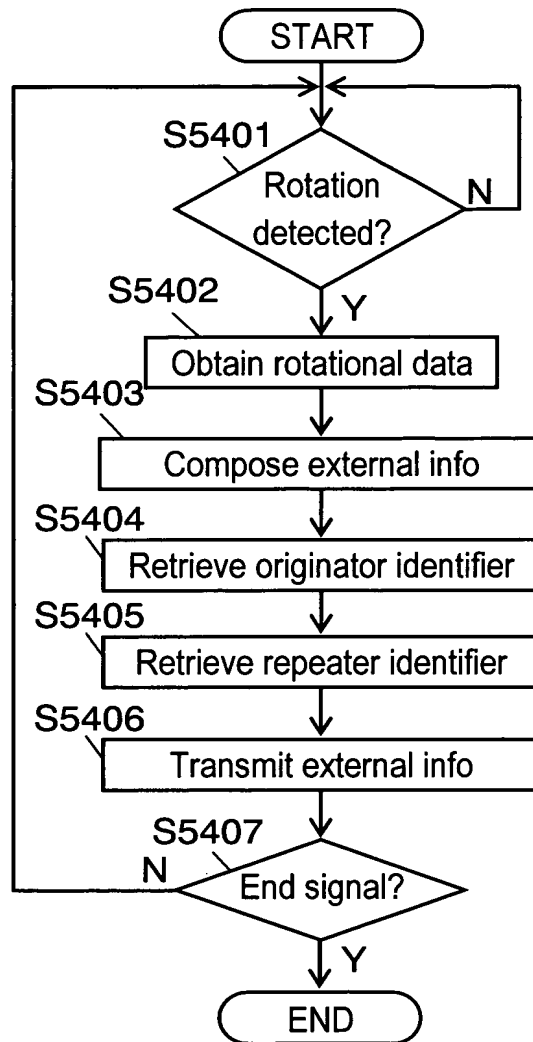
FIG. 53



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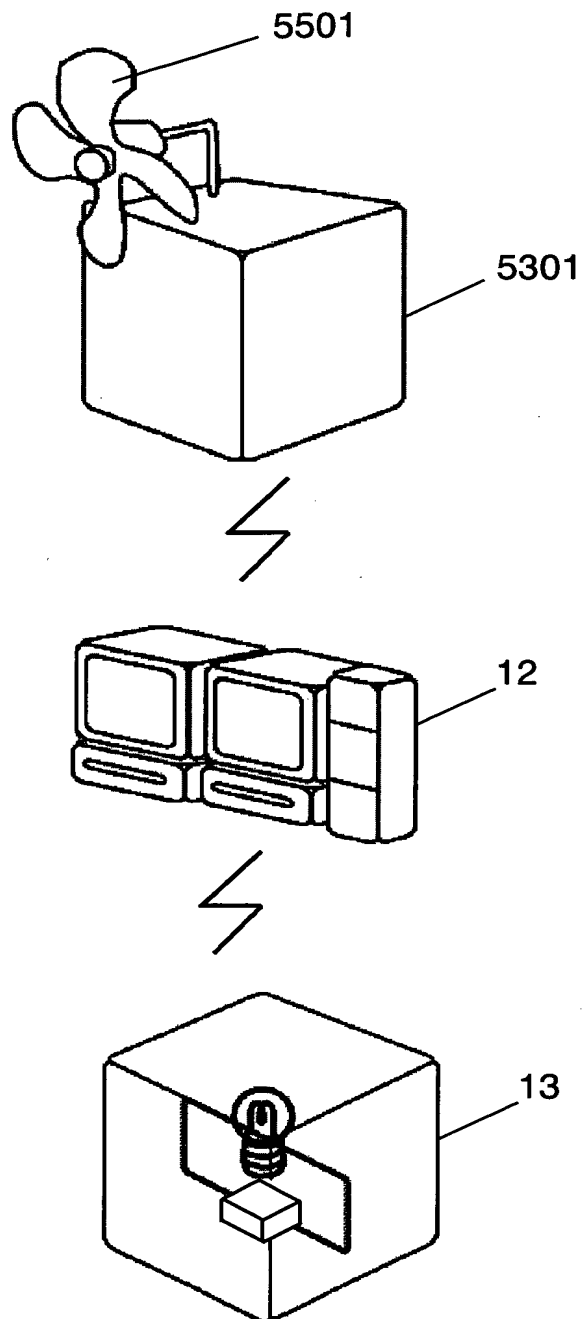
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FIG. 54



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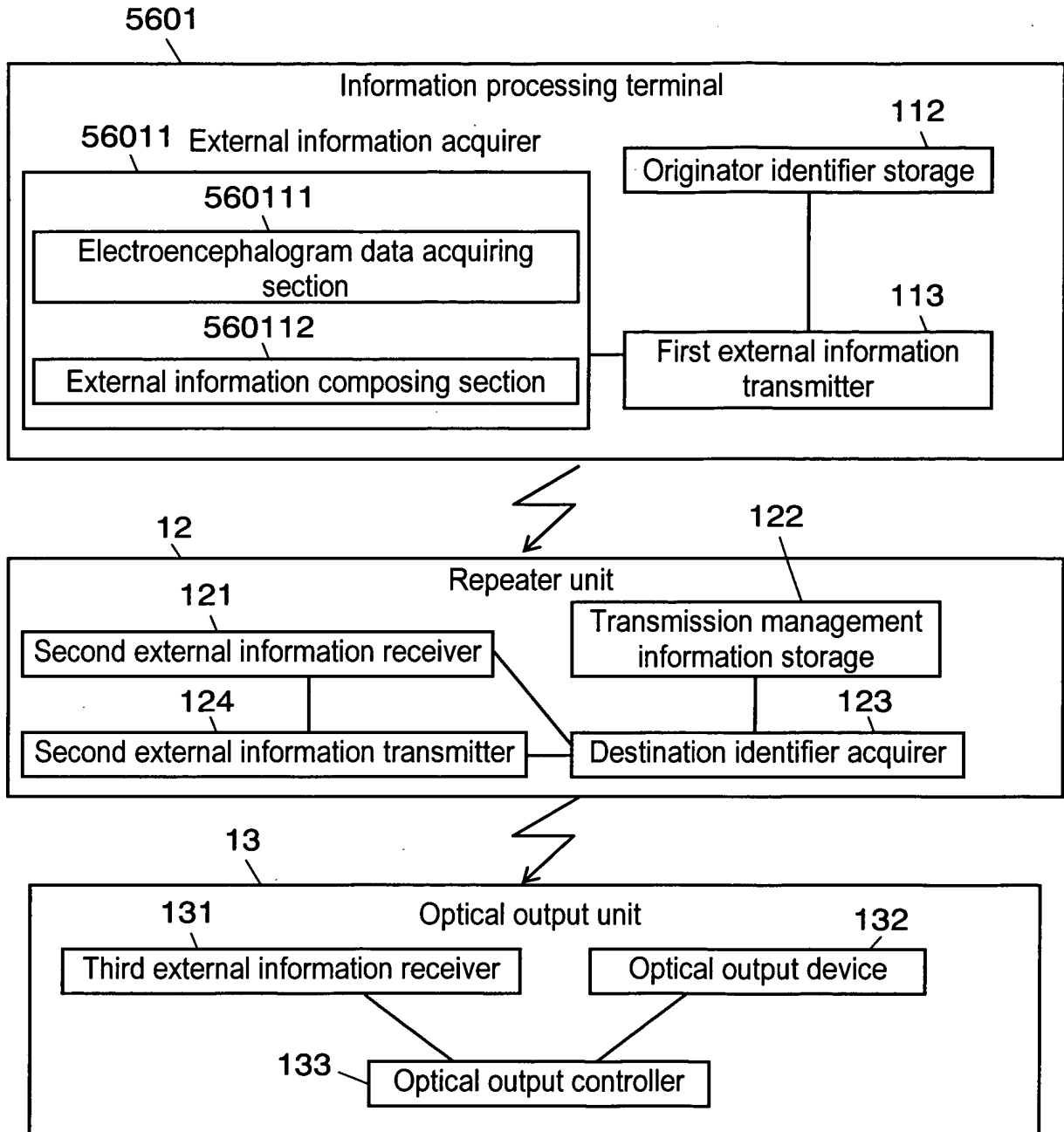
FIG. 55



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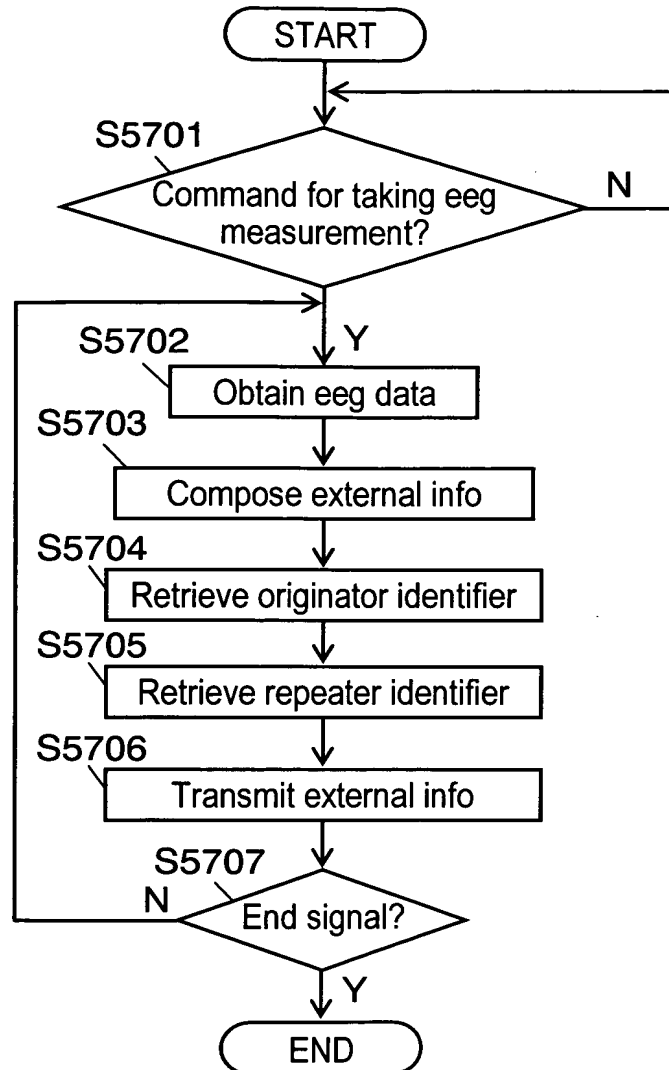
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FIG. 56



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FIG. 57



Reference Marks in the Drawings

- 11, 1301, 2801, 3601, 3801, 4301, 4801, 5001, 5301, 5601. Information processing terminal
- 12. Repeater unit
- 13, 1303, 2303, 2803, 3803. Optical output unit
- 111, 13011, 28011, 36011, 38011, 43011, 48011, 50011, 53011, 56011. External information acquirer
- 111A. Pressure sensor
- 112. Originator identifier storage
- 113. First external information transmitter
- 121. Second external information receiver
- 122. Transmission management information storage
- 123. Destination identifier acquirer
- 124. Second external information transmitter
- 130112A. GPS receiver
- 130331. Blue color LED
- 130312. Red color LED
- 13034. Second location data acquiring section
- 131. Third external information receiver
- 132, 13031, 28032. Optical output device
- 132A. Miniature lamp
- 132B. Three-colored LED
- 132C. Reflector
- 132D. Driving unit
- 132E, 28032A. Liquid crystal display
- 132F. Circular graphics
- 133, 13033, 23033, 28032, 28033, 38033. Optical output controller
- 133A, 133B. Voltage controller
- 13032, 23032. Mode data storage
- 28031. External information storage
- 28032B. LED
- 28032B1. LED at the right end
- 2804. Input unit
- 38031. Map data storage
- 38032. Distance calculator
- 4101. Train

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4102. Information processing unit
130111. Pressure acquiring section
130112. Location data acquiring section
130113, 280113, 360112, 380112, 430116, 480112, 500112, 530112, 560112. External
information composing section
130311. First optical output element
130312. Second optical output element
280111. Input signal receiving section
280112. Input speed data generating section
360111. CPU operating rate acquiring section
380111. Positional data acquiring section
430111. Heart rate data acquiring section
430112. Body temperature data acquiring section
430113. Blood-sugar data acquiring section
430114. Blood pressure data acquiring section
430115. Health condition data acquiring section
480111. pH data acquiring section
500111. Angle data acquiring section
530111. Rotational data acquiring section
5501. Windmill
560111. Electroencephalogram data acquiring section